

THE NATIONAL PROVISIONER.

The Organ of the Provision and Meat Industries of the United States.

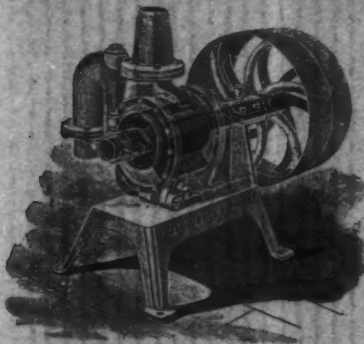
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NEW YORK AND CHICAGO, SATURDAY, APRIL 3, 1897.

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SEE WEIR & CRAIG MANUFACTURING CO.'S ADVERTISEMENT, PAGE 21.

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BUILDERS OF REFRIGERATING AND ICE MAKING MACHINERY

FROM 1/2 TO 50 TONS CAPACITY.

We make a SPECIALTY OF SMALL MACHINES, and have the MOST SUCCESSFUL SYSTEM of MECHANICAL REFRIGERATION for Dairies, Packing Houses, Hotels, Markets Houses, Steamships and wherever a moderate amount of Refrigeration is required. The REMINGTON VERTICAL AMMONIA COMPRESSORS are built either with ENGINE direct connected on same base, or for BELT POWER. They are the SIMPLEST, MOST COMPACT and EFFICIENT MACHINES yet designed for this purpose. Skilled help not required for their operation.

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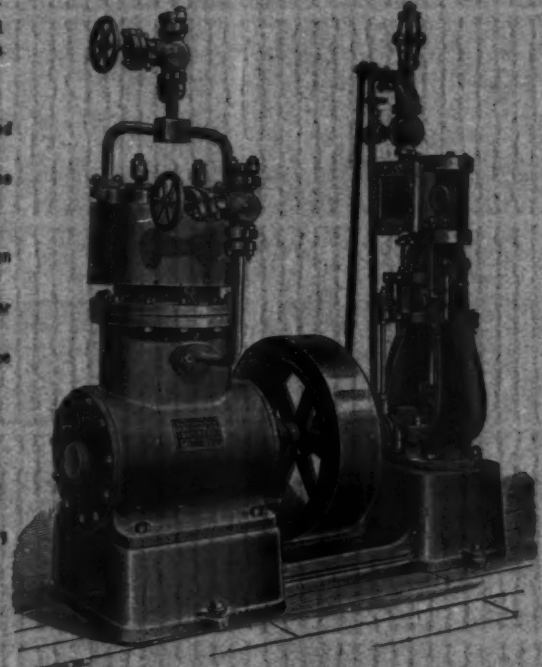
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SEE PAGE 7, INDEX TO ADVERTISEMENTS.

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HAMMOND, IND. AND SOUTH OMAHA, NEB.

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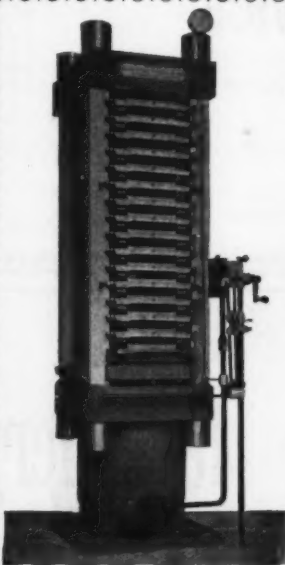
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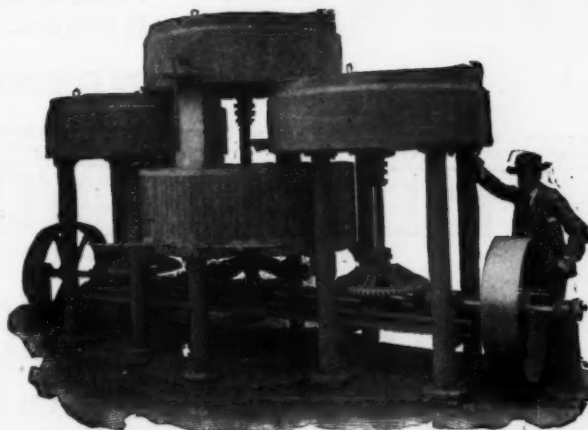
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Cudahy Bros. Co., Milwaukee, Wis. two 150-ton machines
Plankinton Packing Co., Milwaukee, Wis. one 100-ton machine
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Brittain & Co., Marshalltown, Ia. one 50-ton machine
Cudahy Packing Co., South Omaha, Neb. one 150-ton machine
Lincoln Packing Co., West Lincoln, Neb. one 75-ton machine
Chicago Packing & Prov. Co., Nebraska City, Neb. one 50-ton machine
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Pacific Meat Co., Tacoma, Wash. one 35-ton machine
J. Fleischhauer & Bro., New York, N. Y. one 50-ton machine
Thomas Bradley, Philadelphia, Pa. one 35-ton machine
Jos. Obert, Leighton, Pa. one 50-ton machine
Butchers' Slaughtering & Melting Ass'n, Brighton, Mass. one 75-ton machine
Ingersoll Packing Co., Ingersoll, Ont., Canada one 75-ton machine

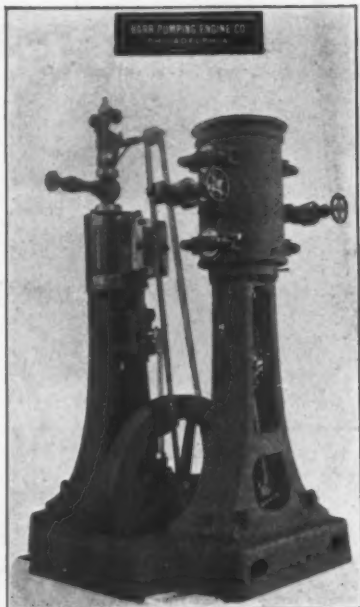


Index to Advertisements can be found on Page 7.

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High Grade Pumping **MACHINERY**

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Prices Quoted on Application.

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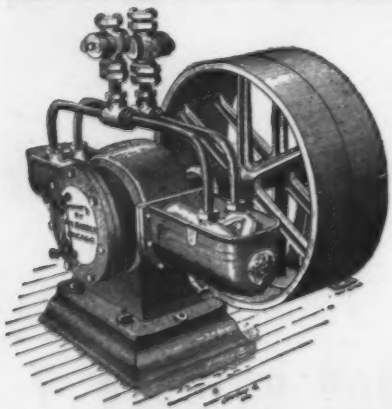
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EVER CONSTRUCTED

FOR MEAT MARKETS,
PACKING HOUSES AND
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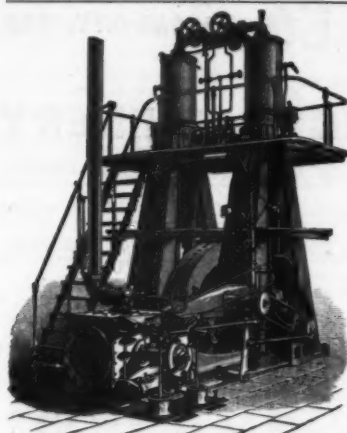
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OUR GUARANTEE IS GOOD.

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A. O. FRICK, Vice-President.
H. B. STRICKLER, Treasurer.
EZRA FRICK, Gen'l Man. & Sec.
THOMAS SHIPLEY, Manager Ice
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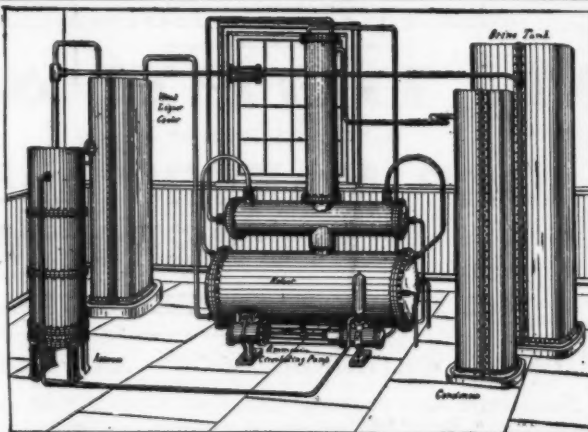
Simplest. Best. Lowest Price.

**CONDUCT
ICE-MAKING
OR
REFRIGERATING
MACHINE.**

Uses Less Fuel, Than Any
Uses Less Water } Other System

BUILT BY
STEELE & CONDUCT,
JERSEY CITY, N. J.

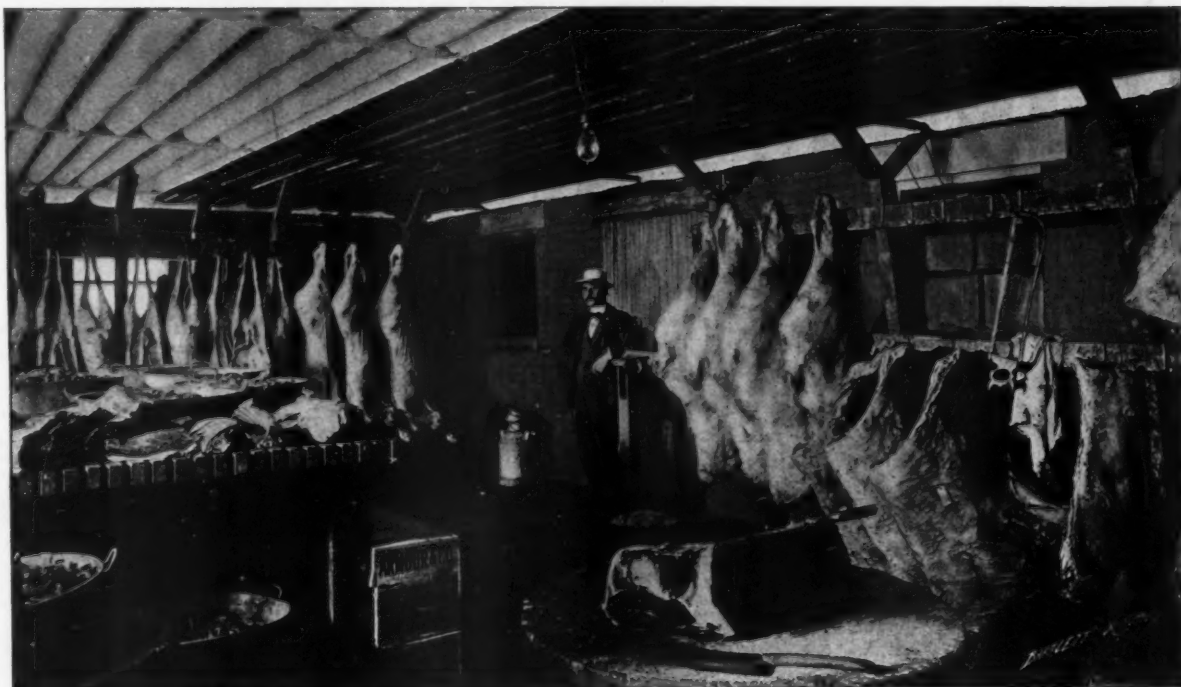
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THE NEW YORK BISCUIT CO.,
Cracker Mfg., New York City, N. Y.
WALLACE & CO., Confectioners,
New York, N. Y.
CENTRAL LARD CO., Lard Refiners,
New York, N. Y.
BUSH BROS., Provisions,
Jersey City, N. J.
JAMES McILHINNEY, Provisions,
Jersey City, N. J.
D. FULLERTON & CO., Slaughterers,
Paterson, N. J.
MONMOUTH ICE CO., Mfg. Ice,
Seabright, N. J.
FIDELITY WAREHOUSE & COLD
STORAGE CO., General Cold Storage,
Trenton, N. J.
PETERSBURG CRYSTAL ICE CO.,
Mfg. Ice, Petersburg, Va.
WM. GRANT'S SONS, Provisions,
Springfield, O.
ISAAC WHIFFEN'S SONS, Provisions,
Utica, N. Y.
COOKE BROS., Oil Works,
Elizabeth, N. J.
HOTEL MARGARET, Brooklyn, N. Y.



THE MEAT ROOM OF THE COOK COUNTY HOSPITAL, CHICAGO, ILL., IS SHOWN ABOVE.

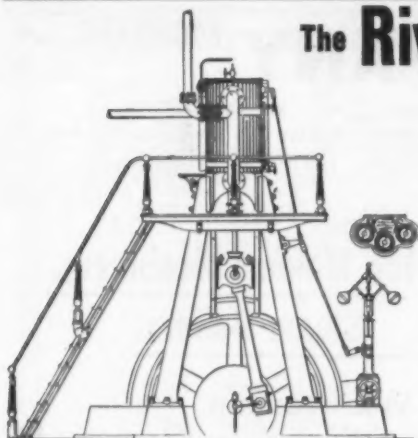
A few years after this plant was started a new and superior outfit of refrigerating machinery, which will be shown in this space next week, was installed by

WESTINGHOUSE, CHURCH, KERR & COMPANY,

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BOSTON, 53 State Street.

ENGINEERS.

PITTSBURG, Westinghouse Building.
CHICAGO, 171 La Salle Street.



100 Ton Refrigeration Machine.

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of any Size or Capacity, on the Compression Principle, also Manufacturers of SPECIAL AMMONIA

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HOUSE MACHINERY OF ALL KINDS. The ROBERTS HOG SCRAPER, LARD ROLLERS IN ONE PIECE.

....Partial List of Machines in Operation.

We contract for the EQUIPMENT
OF COMPLETE PLANTS,
either for Ice Making Cold Stor-
age, Packing Houses or Brew-
eries.

Correspondence Solicited.

St. Louis Ice and Cold Storage Co., St. Louis, Mo.....	1	70-ton	Ref.
Kansas City Ice and Cold Storage Co., Kansas City.....	1	70-ton	"
Reid Bros. Packing Co., Kansas City, Kan.....	2	70-ton	"
Omaha Brewing Association, Omaha, Nebraska.....	1	75-ton	"
Kansas City Ice and Cold Storage Co., Kansas City, Mo.....	1	100-ton	"
Kansas City Ice and Cold Storage Co., Kansas City, Mo.....	1	100-ton	"
Ryan & Richardson, Leavenworth, Kan.....	1	100-ton	"
Jacob Dold Packing Co., Buffalo, N. Y.....	2	50-ton	"
Jacob Dold Packing Co., Kansas City, Mo.....	1	70-ton	"

THE LEADING HOUSE.

H. WM. DOPP & SON,

MANUFACTURERS OF

SOAP MAKERS' and BUTCHERS' MACHINERY,

462 ELLICOTT STREET, BUFFALO, N. Y.. U. S. A.



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ONLY HIGH GRADE GOODS AND ABSOLUTELY THE BEST.

Seamless Steam Jacketed Cast-Iron Kettles, with and without Agitators,

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Steam Jacketed Vacuum Pans, etc.

Full Line of Soap Makers' Machinery.

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WE FURNISH
EVERYTHING

IN THE
WAY OF

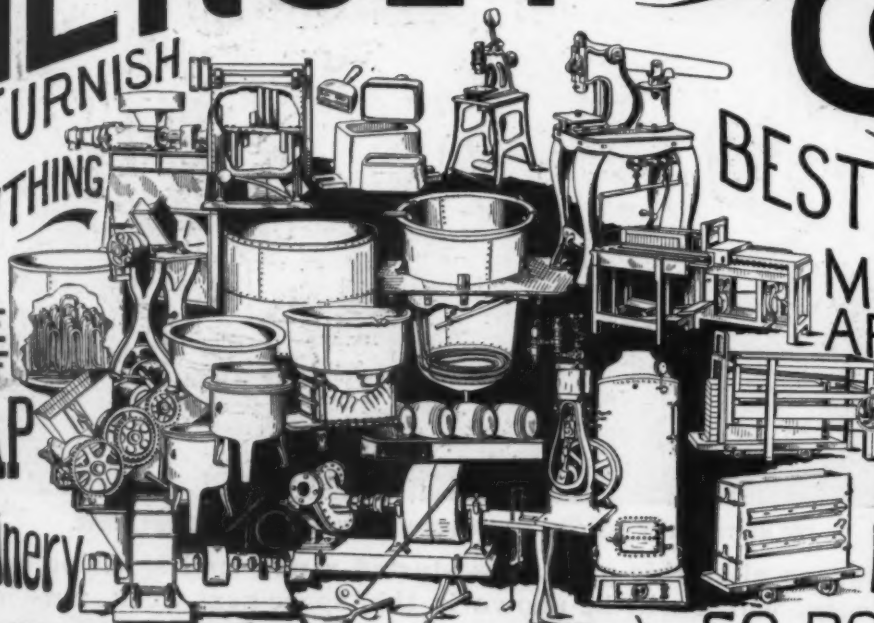
SOAP

Machinery

COR. E & SECOND STS.

BEST AND
MOST
APPROVED
Devices
Made

SO. BOSTON,
MASS.



ARMOUR & CO., PACKERS, CHICAGO.

In addition to all usual products of HOGS and CATTLE, including our unrivaled STAR HAMS and BACON, we manufacture

GLUE, CURLED HAIR,

BREWERS' ISINGLASS,

PURE ANHYDROUS AMMONIA.

The Superiority of Our Goods is Well Known.

THE FRED. W. WOLF CO.

Eastern Offices:
Source Building,
PHILADELPHIA, PA.
18 Broadway, NEW YORK.

Offices: 139 to 143 Rees Street,
Factory: { 302 to 330 Hawthorne Avenue,
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SOLE MANUFACTURERS FOR THE U. S. OF THE CELEBRATED

LINDE REFRIGERATING AND ICE MAKING MACHINE

Over 2,200 Machines now in actual operation, of which 319 are in Packing Houses. Send for Catalogue and complete list of users.

SWIFT & Co.	Chicago	20-50	1000	S. SAN FRANCISCO PACKING Co.	Baden, Cal.	2-60	100
G. H. HAMMOND Co.	So. Omaha, Neb.	4-75	300	LOUISVILLE PACKING Co.	Louisville, Ky.	1-100	100
G. H. HAMMOND Co.	Hammond, Ind.	2-100	200	FORT MADISON PACKING Co.	Fort Madison, Ia.	2-80	100
SWIFT & Co.	So. Omaha, Neb.	4-50	200	UNDERWOOD & Co.	Chicago	2-40	80
SWIFT & Co.	Kansas City, Mo.	1-100	100	IOWA PACKING Co.	Clinton, Ia.	1-75	75
CUDARY PACKING Co.	Nashville, Tenn.	2-100	200	CINCINNATI AMMONIA Co.	Cincinnati, Ohio	1-75	75
CUDARY PACKING Co.	St. Joseph, Mo.	2-75	150	HAMMOND STANDING Co.	Detroit, Mich.	1-75	75
UNDERWOOD & Co.	Chicago	2-75	150	ALTON PACKING AND REFRIG. Co.	Alton, Ill.	1-80	80
ST. JOSEPH PACKING & TRANS. Co.	St. Joseph, Mo.	1-100	100	J. & F. SCHROTH PACKING Co.	Cincinnati, Ohio	1-50	50
ARMOUR PACKING Co.	Kansas City, Mo.	1-100	100	M. LAING & Co.	Montreal, Canada	1-25	25
				MICHIGAN BEEF AND PROV. Co.	Detroit, Mich.	1-25	25



The National Ammonia Company, ST. LOUIS, MO.

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THE RECOGNIZED
STANDARD OF QUALITY
THROUGHOUT THE
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LIQUID ANHYDROUS AMMONIA

ABSOLUTELY DRY AND PURE.

OUR GOODS CAN BE HAD OF THE FOLLOWING:

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BALTIMORE.—Wm. Mitchell.
WILMINGTON.—Delaware Chemical Co.
HOUSTON.—Joe. W. Davis Oil Co.
MILWAUKEE.—Chas. Baumbach Co.

SAN FRANCISCO.—Pacific Ammonia & Chem-ical Co.—Geo. Herrmann.
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PITTSBURGH.—Union Storage Co.
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"WE BELIEVE that in extent of light-weight raw material, collected and carried, Mr. Page holds the lead of any competitor."
—Shoe and Leather Reporter.
MR. PAGE is, without question, the largest handler of Calfskins in the East in this country.
—Shoe and Leather Review.

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CALF SKINS
COLLECTED IN THEIR VICINITY
CARROLL S. PAGE,
HYDE PARK, V.T.

"THE LARGEST Dealer in Raw Calfskins in the world."
—Hide and Leather.
CARROLL S. PAGE per-haps is the oldest deal-er in Calfskins now in the trade, and is certainly one of the most reliable.
—The National Provisioner.

A REQUISITE IN EVERY PACKING HOUSE.

FULL DESCRIPTION
ON PAGE 51.

The Pork and Beef Packers' Hand-Book and Directory.

THE NATIONAL PROVISIONER

THE ORGAN OF THE PROVISION AND MEAT INDUSTRIES OF THE UNITED STATES.

PUBLISHED WEEKLY.

ROBERT GANZ.

DR. J. H. SENNER.

THE NATIONAL PROVISIONER PUBLISHING CO.

ROBERT GANZ & CO. PROPRIETORS.

NEW YORK CITY: 284 & 286 Pearl Street.

CHICAGO: Room 11, Rialto Bldg.,

135-153 Van Buren Street.

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BOSTON: 45 North Market Street.

CINCINNATI: 23 West Second Street.

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Also 47 to 53 John Street, Smithfield.

ST. LOUIS, 221 No. Second Street.

KANSAS CITY.

CABLE ADDRESS, "SAMPAN, NEW YORK."

SUBSCRIPTIONS.

Per Annum, invariably in advance, in the
United States and Canada, - - - \$4.00
Foreign Countries, except Canada (£1) - 5.00

NEW YORK AND CHICAGO.

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TABLE OF CONTENTS.

EDITORIAL:

Cleanliness in Slaughter Houses.....	9
The Penalty Fits the Crime.....	9
A Farmers' Co-operative Society for British Columbia?.....	9
Bill in Kansas to Stop Butterine.....	9
Plenty Yet for John Bull.....	9
Rinderpest.....	9

WEEKLY REVIEWS:

Provisions and Lard.....	10
Tallow and Oleo Stearine.....	12
Hides and Skins.....	16
Cottonseed Oil.....	18
Rotterdam Oleo Report.....	46
Kansas City Letter.....	14
Chicago Provision Market.....	34
Tips on the Market.....	38

TECHNICAL:

The Packing House—Steer and Heifer Beef. (Continued).....	24
For Treating Cottonseed Foots.....	24
A Benzoline Process of Extracting Oil from Seeds.....	24
Sausage Receipts.....	26
Answers to Correspondents.....	26
Soap Making. No. 37.....	28

DEPARTMENTS:

Packing House Notes.....	30
Ice and Refrigeration.....	34
Tallow, Soap, Glue, Fertilizer and Cotton Oil Trade Notes.....	18, 30

GENERAL:

New York City and Vicinity.....	18
New York Produce Exchange Notes.....	22
Recent Patents and Trade-Marks.....	22
Business Changes.....	38
The Russian Hog Trade with Germany.....	26
Process for Liquefying Air.....	26
Pork Packing.....	28
The Week's Exports.....	28
England's Meat Exports.....	28
The Manufacture of Ice.....	36
Grubs in Hides and Skins.....	36
Oil Mill Superintendents' Association.....	20
The Salt Trade.....	14
Hoboken Butcher Guards' Ball.....	18
Cake and Meal Market.....	34
Stocks in New York.....	38
Markets.....	44, 46

Index to Advertisements, Page 7.

It is satisfactory to note that the proposed new tariff law has clauses providing power to deal with the questions of reciprocity and retaliation whenever it is deemed advisable to do so.

CLEANLINESS IN SLAUGHTER HOUSES.

For years and years a persistent warfare has been waged in all civilized communities against the existence of slaughter houses within municipal limits. This agitation has been very marked in some countries, and perhaps more so in England than anywhere else. It has also extended to the United States and has in many cases cost slaughterers thousands and thousands of dollars, and has resulted in some sections in the formation of union abattoirs conducted by co-operative enterprise. In England municipal governments have overcome the difficulty by erecting and controlling abattoirs. These are under capable management and are said to be models of cleanliness and as satisfactory in their working to butchers as to the public at large. There can be no doubt that this general agitation against slaughter houses has come about through the fact that in the larger number of cases, where only a dozen or so cattle are killed in a week, the individual slaughter house is a nuisance and is so mainly through the carelessness of its owner. We think that this too is responsible for the circumstance that so many slaughterers are getting out of business to be succeeded by the cooler of the large Western packer. We regret this as much perhaps as the slaughterer does himself, for we are no believers in the idea of centralization. We doubt, however, if the lot of the small slaughterer would have been so bad had he shown any disposition to modernize his business and his methods of conducting it. There are still enough of our readers in the slaughtering trade in a small way whose premises are within town and city limits to benefit by what we have to say today. The growth of population is apparent in all sections of the United States to-day and with the advance of science and new ideas on hygiene the disposition to drive so-called "objectionable" business beyond the limit of possibly affecting public health is general. We notice nevertheless, even where slaughtering is carried on on antiquated lines, there is an inclination—in view of the cost, inconvenience, etc., of moving—to be lenient if the most ordinary precautions are enforced. But even with this extension of grace many continue careless and indifferent. At best the business of slaughtering is not a cleanly one, and this is all the more reason why those engaged in it should follow a few simple rules and thereby head off complaint and possibly unjustifiable agitation. Wherever possible we advise slaughterers to modernize their plants by the adoption of smell-destroying and labor-saving machinery. There are also devices on the market for the saving and utilization of every section of a bullock or hog. Of course all these are incidental to the amount of killing done, but the cheapest of all cheap things is cleanliness, and whether the volume of business be large or small there is no excuse for a dirty slaughter house.

At this writing the month of March bids fair to take its departure, as is its wont, like the proverbial lamb. The mild weather of April with its gentle showers and spring-like sunshine will come as a godsend to farmers and stock-raisers, and will no doubt undo much of the harm perpetrated by March, which must be chronicled as being as fickle and capricious, if not more so, in the variety of its weather as any of its predecessors in former years. Reports from the stock-raising States bring news of considerable damage to cattle and sheep from intense cold and uncertain weather generally. In Montana, for instance, a letter dated March 14 says: "Only an immediate moderation of weather conditions can save the State from the greatest loss ever known." The news from other sec-

tions is not quite so bad, but still bad enough to suggest that the month just closed has been a record-breaker for severity and damage to stock-raising interests.

THE PENALTY FITS THE CRIME.

Were our German cousins to abstain from eating raw pork and hams we would probably hear considerably less of cases of trichina than we do now, although the few cases reported have not been proven to emanate from eating American pork. In this country, where people cook the meats previous to eating same, we do not remember having had a case of trichina brought to our notice in a great many years.

There must be something in American pork, however, that attracts the average European citizen. In spite of all prejudice against our pork products, in spite of all restrictions and obstructions, legislative and otherwise, Europe has relieved us during 1896 of \$79,000,000 worth of pork and hog products. This at a time, too, when prices were very low and when this sum represents probably twice the number of pounds than it did formerly. Let them scold, but have them buy our goods, and pay for them.

The extraordinary and rapid advance of that terrible disease, rinderpest, among cattle in Africa shows that too much precaution cannot be taken in regard to quarantine arrangements, etc. That it is so extended today is due to the fact that when it broke out, ten years ago no general alarm was felt, and no precautions were taken to stay its progress. Now the entire country is affected, for the disease, to quote an exchange, "is running like a prairie fire fanned by a gale." Of 2,000,000 head of cattle in Cape Colony it is expected that not 1 per cent. can be saved. Meantime there is a beef famine, and cattle raising has had a blow from which it will not recover for years.

Perhaps the difficulty, unfortunate as it is, may afford an opportunity to American exporters.

The agitation against the evils of department stores grows apace, and contemporaneous comment in all the large cities in the United States and Canada is amazingly uniform in condemnation of the methods pursued in these great emporiums. Verily, "the trail of the serpent is over them all."

We were told at least half a dozen years since that the great United States cities would very soon consume all the meat the American farmers could produce, but they still continue to send us their chilled beef and live cattle, and the fallings off in their sheep may possibly be only temporary.—"Mark Lane Express."

We are still far from the point suggested by our contemporary. It will be many years indeed before we cease to be exporters of pork and beef products unless something very extraordinary and unexpected happens. We could easily add ten millions more to our population and still have enough of all kinds of meat for our old and good friend John Bull.

There is talk in British Columbia of forming a farmers' co-operative society for the purpose of operating a large packing plant in that section. The scheme, we understand, is still in embryo, but is being worked out. If the British Columbian farmers follow in the footsteps and adopt the same plans pursued by their brethren in Denmark, they may be successful—all else being equal. The success of pork packing in Denmark is due to the close relations existing between the raisers of the hogs and those who market the product.

(Continued on next page.)

(Continued from page 9.)

When you are in a certain line of business there is nothing like understanding it thoroughly, and knowing its requirements. Despite the fact that there are more papers devoted to the interests of agriculture published in the United States than in all other countries put together, the American farmer always seems to have the bit in his teeth, and persistently follows his own notions regardless of market conditions, advice for his own good or anything else.

Our contemporary, "The Capital," of Topeka, Kas., in commenting recently on a bill introduced in the Kansas Legislature, intended to stop the manufacture and sale of butterine, pointed out that the contention had been made by those opposed to the bill that its passage would injure the cattle industry of the State, and added: "There is no ground for this objection. The cattle industry of this State does not need to be protected by fraud and deception. Oleo butter is manufactured largely from cottonseed oil. Neither tallow nor butter enters largely into its composition."

Did anyone ever read such nonsense and humbug? Our Topeka friend apparently knows as much about the constituent element of butterine as he does about the truth. Yet this kind of trashy journalism is being served up to the public right along.

Report has it that an extraordinary effort is being made to build up a dressed beef trade between Canada and England, and that as a step in that direction slaughtering and cold storage warehouses will be established at various points, including Calgary, Medicine Hat and Winnipeg. It can hardly be said that the movement has yet gone beyond the figuring stage, but if our Canadian friends ever make the same success out of dressed beef exports that they have out of pork products their efforts, we think, will not be in vain.

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PROVISIONS AND LARD.

WEEKLY REVIEW.

A HALTING MARKET

has been the feature of this week's trade so far, owing to receipts of hogs being larger on Saturday last and Monday than expected, due to delayed arrivals last week on account of interrupted transportation West by floods. This caused some realizing and some raiding by the packers and shorts, helped along by a decline in wheat; but at the drop there was good buying both by packers and shorts, and after Monday receipts again dropped to or below estimates, causing firmer markets on light offerings. But demand has not been active, either spot or future, with one or two exceptions, both speculation and legitimate trade having fallen off from the late volume, owing to doubt as to continuance of late extreme small receipts of hogs. This doubt, however, seemed to be partially removed after Monday, as there was very good buying that day on the break, caused by an excess of receipts of 6,000 over estimates. In relation to the position of some of the big packers on the market, the Chicago Herald of last Saturday said:

"The provision pit has been of the opinion all the week that Armour was rather against the market, and that his selling more than any other had brought the advance to a standstill. The principal selling yesterday was of pork by Wrenn. Buckingham of this concern is a director in the International Packing Company. There were those who, bearing this fact in mind, thought that possibly Wrenn's selling of pork was really unloading by the English concerns, who continued open buyers themselves. The popular view in the pit, though, was that selling of pork was for Armour."

Despatches later in the week said that the Cudahy Packing Company was buying July lard. On Monday Fowler was reported to have bought 800,000 lb of green hams in Chicago at 8½¢, indicating a better demand from the English markets for pickled hams, against which it was supposed these purchases were made. Otherwise the trading of the week has been scattered and general, other packers apparently having been doing little, despatches generally saying that packers have not been selling. This is about all there has been of the speculative markets, which have been far less interesting and active than a week ago, the trade and pack-

ers alike seeming to be in doubt as to the near future tendency of the market. There has been no further news in relation to the hog supplies at the West, though at the East it ran short at the close of last week, owing to the light arrivals all last week at Western points, thus shortening the supplies for Eastern markets, until 6c. was reached in New York for 140 to 160 lb hogs, but since then prices have eased off ¼¢. on better arrivals. As to the supplies back there is nothing to add to what has lately been printed in this article, the indications still being of a continued light run of hogs for the balance of the spring, as weights are still running light and heavy hogs are becoming scarce at all points and command nearer the prices of light than usual. Home trade has been slow, both Eastern and Southern, both using up old supplies, which seem to be sufficient for current wants, together with deliveries on old contracts. The late floods at the West also checked distribution, though since transportation resumption there has been very little activity. Exporters of all products have been doing little or nothing, except in Eastern bellies. But the light supply and high price of the latter has checked the late activity, while scarcely any new business has been doing in lard, in any shape, for any market. The exports of pork since November last have decreased, compared with last year, 7,367,600 lb, up to the close of last week, and of lard 5,131,229 lb, while meats have increased 70,353,340 lb for the same period, making the comparison much more unfavorable on lard than on other products, especially meats. Estimates early in the week of stocks at Chicago on April 1 were 101,000 bbls. of new pork, 57,000 of old, 260,000 tes. old and new prime lard and 23,000,000 lb of ribs.

On Saturday Chicago hog receipts were 11,000, against 9,000 estimated, and products dropped 2½¢@7½¢. for the day, though 2½¢@5c. lower still during the forenoon session, on light demand and moderate offerings. Spot trade in New York was of the usual Saturday character: 800 12-lb city pickled hams, 9½¢; 8,000 lb of 12-lb ribbed bellies, loose, 5½¢; 12,000 lb of 10-lb ditto, 5½¢; prime Western lard was quoted nominal at 4.40c.; city at 4.15¢@4.20c.; refined unchanged and nominal, with hogs up to 6c. for medium and light, 6¼¢. for pigs and 5½¢. for heavy weights.

On Monday receipts of hogs in Chicago were 34,000, against 28,000 estimated, and pork dropped 20c., recovered 15c., closing 5c. off for the day; lard dropped 5c., advanced

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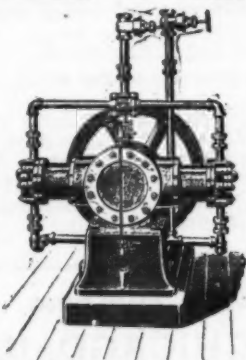
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7½@10c. on short demand, closing at the outside price for the different months; ribs broke 7½c. and recovered the loss, to 2½c. more. Spot Western lard was nominal in New York at 4.45c. asked, without demand or sales reported in tierces, one tank selling at 4.17½c. early and one at 4.20c. at the close. City lard was quoted nominal at 4.15@4.20c.; pork was more active but easier, 500 bbls. selling, chiefly mess, at \$9@9.50; clear, \$9.50@10.75; family, \$9.75@10.50; 60 boxes of clear bellies sold at 5½c. for Cuba; otherwise only jobbing sales in city meats were reported, and nothing West for Eastern markets, though 800,000 lb of green hams were sold to Fowler at 8½c. in Chicago.

On Tuesday receipts of hogs were 13,000 at Chicago, against 16,000 to 20,000 estimated. Prices opened 2½c. off for pork, to advance 5c., and close unchanged for the day on May and 2½c. up on July, though 2½c. off from the top on the latter. May lard gained 2½c. and July ditto, but lost it; ribs gained 5c. on May and 2½c. on July with fair trading; spot Western lard in New York was quoted 4.42½c., though to be laid down from Chicago it cost 4.47½c., as that is the highest market in the country, and none is coming to New York from there. One tank sold late the night before at 4.20c., with that quotation nominal for the day; city was 4.15c. bid and 4.20c. asked, without a sale reported; refined was dull, as it had been through the week, at old prices; hogs were off another ¼c., in addition to ¼c. on Monday in New York. Large beef tongues were scarce and quoted higher at \$24.50 for 6-lb average, with sales at that. Beef products generally were quiet and unchanged, sales for the week so far being 200 tes of extra India and 300 bbls. of family and packet at old quotations. City meats, as well as Western products, all quiet and nominal, in the New York market, excepting for job lots.

On Wednesday receipts of hogs in Chicago were 24,000, as estimated, and 61,000 West, against the same a year ago. Pork at the West opened 7½c. off, advanced 12½c., and closed 2½c. up for the day; lard opened 2½c. off and recovered it on moderate trading, ing that lower for the day; ribs opened 5c. off and recovered it on moderate trading, with estimates of 25,000 hogs for Thursday. In New York Western lard was nominal at 4.40@4.42½c. in tierces, while five tanks sold at 4.15c., or 5c. off Tuesday's nominal quotation; city lard was dull at 4.12½c. nominal, against 4.15@4.20c. Tuesday. Jobbing sales only of pork and meats were reported, though it was understood there were some transactions in bellies, not made public, for export, as well as local account. Hogs in New York were firm at 5½@6c. for the range.

(For Later Report See Page 40.)

HINTS TO PRACTICAL OIL MILLERS WITH REGARD TO PRESS ROOM APPLIANCES AND METHODS. ORDER THE BOOK NOW. BLANK CAN BE FOUND ON PAGE 22.

PROPOSALS.

OFFICE OF LIGHT-HOUSE INSPECTOR, Third District, at Tompkinsville, N. Y., March 13, 1897.—Proposals will be received at this office until 12 o'clock M. on Tuesday, the 13th day of April, 1897, for furnishing and delivering provisions for vessels and light stations in this district. Forms of proposals and printed instructions giving full particulars as to the articles required and to the terms of delivery and payment can be obtained at this office. The bidder in every case must furnish, with his bid, a certified check in a sum equal to 3 per cent. of the amount of the bid. The check is to be drawn to the order of the Secretary of the Treasury, and in the case of an unsuccessful bidder, it will be returned to him after the award is made. It will be returned to the successful bidder when his contract is signed and approved by the Department. If he should fail to make the contract, the certified check deposited by him shall become the property of the United States. The right is reserved to reject the whole or part of any or all bids, and to waive any defects, and to increase or diminish during the fiscal year ending June 30, 1898, the quantities of any item or article named in the specifications. A clause to this effect will be inserted in the contract. A. S. SNOW, Comdr. U. S. N., Light-House Inspector.

TALLOW AND STEARINE. WEEKLY REVIEW.

TALLOW.—A dull, barely steady market has been the only feature so far this week, prices East and West being practically unchanged, though in cases shaded a trifle from last week's figures, especially at Chicago, regarding which we expressed doubt in our last as to the amount of business done there at 4c. We are since informed that the business at that figure was limited to special brands of No. 1 packers' and to edible stock, since when there have been good sales of No. 1 at 3¾c. (and rumors at 3¼c.), said to be over 1,000 tes., while of No. 2 packers' 750 tes. have been reported since our last at 2½@2¾c., as to brand, at which both grades are quoted steady at this writing. In the New York market no sales to date of city have been reported, there having been sellers at 3¾c., without reported bids above 3¼c., by the local trade, which, however, finds sufficient supplies of country for current wants at a shade easier prices, 3¼c. being hard to obtain, except for edible or fancy soap stock, 3¼@3¾c. being the general range, at which about 600 bbls. have been taken to this writing, or about 75,000 lb daily. Of city, this week's make is on the market, if not some left over from last, in addition to the old stock still held in one melter's hands. English markets have shown no further disposition to come in, while French markets have been utterly indifferent, and Germany, unwilling to pay over 3½c. for small lots of edible, which was still held at 3¾c. for city. Otherwise no change, business or feature has been reported since our last.

STEARINES have been dull at the East, though steady at old prices for oleo, up till midweek, when it was held firmer at 4½c.,

New York, with 4¾c. bid, while sales in Chicago for last week were reported early this week of 750,000 lb at 4¾c., at which that market had been quoted steady since, without transaction. There are no considerable accumulations of stock at the West or East, so far as reported, and pressers are pretty firm holders on continued light production. In grease stearines the market has been nominal at 3 5-16c. for yellow obtainable in New York for export, and 3¾c. asked, and at 3¾@3¼c. nominal for white. But if any business has been done for export it has not been reported. Lard stearine has been nominal at 4¾c., New York, for Western and 4¾c. for city, with nothing reported doing for export, though some deliveries are still being made on old contracts, while local lard refiners are taking the balance of current production, also mostly on old contract. There was a sale of 50,000 lb of oleo stearine on Wednesday at 4¾c. for out of town.

OLEO OILS have been a shade easier in Rotterdam than the extreme prices of last week, 500 bbls. of Calumet and Morris' extra being reported early in the week at 37 florins, fancy brands not having been quoted, though the last sale was at 39, and of seconds at 35 florins. Of the market a leading shipper said: "Shipments from here are light, arrivals in Rotterdam are light, stocks there are light and demand also, and the market a trifle easier." Production here, however, is kept about on a parity with the demand from abroad, and there seems to be no pressure to sell.

ANIMAL OILS have been quiet and steady for lard, with the market for raw material, without any activity in home or export trade, buying being of a hand-to-mouth character, while neatfoot oil has been dull, with a moderate demand only, and supplies ditto, at old figures; but degreas has been held higher in anticipation of an increase in the duty, while tanners have been, or would have been, good buyers at old prices, though not yet ready to pay the advance asked by importers until the tariff question has been settled.

GREASES have been dull at the East at unchanged prices, though steady with the West, where a good business was done late last week to the extent of over 600 tes. at 3 1-16@3¼c. in Chicago for B white, 3¼c. for A white, 2¾c. for brown and 2.55@2.62½c. for yellow, at which prices the market has been held firmly so far this week. Exporters, however, seem to have taken less interest in this staple, as well as in tallow, cotton oil and soap stocks generally, foreign supplies being ample and cheaper than here.

(For Later Report see Page 40.)

**** Mr. A. J. Sweeney, of Springfield, who represents the Eastern branches of the Jacob Dold Packing Co., with headquarters at Boston, paid a pleasant visit to "The National Provisioner" office on Wednesday.**

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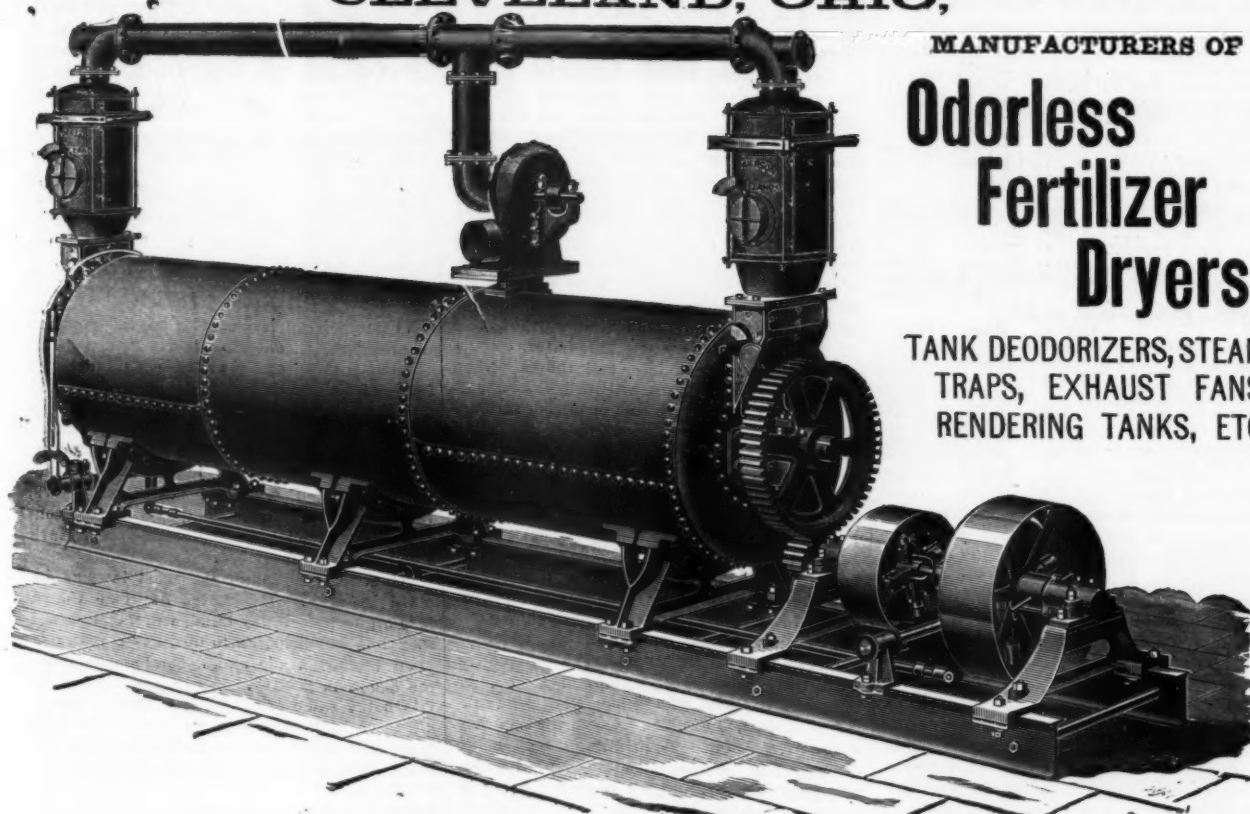
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No. 66 Corresponds in size with our old No. 62 \$225.00



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Philadelphia, Pa., U. S. A.



KANSAS CITY LETTER.

The records for past week give hogs and sheep higher and cattle fairly steady. The receipts for past week with comparisons:

	Cattle.	Hogs.	Sheep.
Kansas City	24,258	50,822	30,000
Same week 1896...	26,031	43,549	22,571
Same week 1895...	29,623	42,173	22,075
Same week 1894...	27,312	62,643	8,975
Chicago	46,700	92,200	66,600
Omaha	13,500	25,500	21,600
St. Louis	11,100	28,500	10,800
Kansas City	24,300	50,800	31,000
Total	95,600	197,000	130,000
Previous week	87,100	234,100	107,900
Same week 1896...	92,700	226,600	95,700
Same week 1895...	84,600	236,900	78,100
Same week 1894...	104,300	200,700	69,600
Same week 1893...	93,300	174,300	73,100
Kansas City packers' slaughter:			
	Cattle.	Hogs.	Sheep.
Armour Pack. Co. .	3,810	18,443	7,787
Swift & Co.	5,261	16,095	10,614
S. & S. Co.	3,739		2,842
J. Doid Pack. Co. .	571	6,081	419
Fowler, Son & Co..	136	6,230	202
Total	13,677	47,906	21,965
Previous week	14,072	47,100	14,719
Same week 1896...	15,537	37,901	16,120
Same week 1895...	17,471	35,789	8,445

The shortage of cattle in the quarantine division of the stock yards very noticeable last week—only 76 cars, against 198 cars one year ago, and 370 cars same week 1895. Prime cattle also scarce, and handy dressed beef much sought after, but not to hand. Light and middle weight active and in demand. The top price for the week not paid by packer or exporter, but by a venturesome farmer, who paid \$5.20 for some fancy black stockers, 35 head averaging 658 lb. The exporters paid \$5.10 for one bunch of 1,480-lb average, then 5c. for some 1,505-lb average; balance of sales below this figure. Eastman purchased some two-year Durhams, 1,465-lb, at \$4.90, and another bunch, 1,462-lb average, same price. Krauss purchased for New York trade some nice 1,478-lb at \$4.80, Myers purchased some 2,492-lb at \$4.80, Swift purchased some nice ones, 1,310 lb, at \$4.80. Cows and heifers were strong and active, owing to usual short supply, and cows went as high at \$3.70—but not many—\$3.40 to \$3.50 purchased the bulk. Heifers sold as high as \$4.15. Armour purchased a few fancy cows at \$4. Range and Texas cattle being in limited supply brought good prices, some 1,141-lb average Texas at \$4.15, some Western steers at \$4, of 978-lb average. A bunch of Colorado steers, 1,163-lb average, \$4.35. Some Texas stock, fed in Kansas, of 1,295-lb average, purchased by Armour at \$4.30. Some fed Colorado steers, 1,043-lb average, at \$4.40. The highest price paid for such in corresponding week one year ago \$3.85.

Feeders were not so numerous, and the speculators handled quite a number for several days, while fancy bunches sold at high prices and a good many \$4.70 sales—yet the poorer grades slow and easier to 10@15c. Still very few under \$4, when one year ago the top of the pot sold at \$4. Reports now coming from Montana are very flattering—the great losses not yet proven—and no doubt if losses as heavy as once reported the news would be confirmed in a more specific form. The snow has done a good service to the upper ranges and a bountiful supply of grass already predicted. In fact, we hear more of a scarcity of good breeding bulls than anything else—as the Western world in general is going in for young cattle production. Three years from now we will again have cattle to give away if we keep up present pace. We have also been told that the drive of Texas cattle to the territory would be some 20 per cent. short of last year, but a late letter from the live stock agent of the Bureau of Animal Industry states that fully 300,000 head will be grazed in the territory this year; yet last year only gave 250,000 from Texas to terri-

tory. It is expected that the month of April will see the commencement of the exodus northward. Already 75,000 head have been moved in the last few months from Texas to Kansas under the special feed-in-transit rates.

Last week the shipment of feeders back to the country rather small, being only 203 cars, against 232 cars previous week, and 159 same week year ago. Export men forwarded 142 cars, against 140 cars previous week and 177 cars year ago. The outside purchasers of cattle for last week were Eastman 1,332 head, Swift 267 head, Krauss 363 head, United Dressed Beef Co. 240 head, Michael 214 head, Kaufman & S. 126 head and St. Joseph Packing & T Co. 64 head. Pierre Wibaux, the Montana cattle king, who, Minneapolis papers reported, lost \$1,000,000 in cattle by the storms, writes a very cheerful letter, contradicts the amount of loss, and thinks "when the winter is over and the truth is known cattlemen will have every reason to congratulate themselves." The report of the Department of Agriculture as to the number of hogs on hand Jan. 1 in twelve of the great hog producing States shows a fair shrinkage from two former years. In 1895 the twelve States had 25,636,745, in 1896 they were counted as 23,278,010, and present year only 21,148,332 hogs. It is strange to see the year of an abundance of corn near 4,500,000 short of 1895. Iowa, the greatest sufferer, showing a loss between 1895 and 1897 of 1,778,515 hogs; and yet with all that she is credited with three-quarters of a million more hogs than any State of the Union, Missouri ranking next with 3,074,329. A shortage in two years of 800,000 hogs in Illinois may make Chicago put on her reflecting cap. Kansas keeps very steady, and not much difference in the three years. Three-fourths of the shortage coming from Iowa, Illinois and Missouri.

During the past week the American hog had a good many things to contend with, and had to grunt back from the high position of tops \$4.17½ on Monday to \$4.07½ on Saturday—but still a good fancy price for 12c. corn. Mexico not in the market, a \$4 hog does not strike the greasers as a desirable article, and they are entirely too rich for his blue blood at \$4.10; but the heavy hogs sold well, anyway. A good number of Southern hogs on market during early part of week; the packers made the quality an object of lower prices, and pretty low figures paid for any not prime. Then complaint during week that hogs not so good, anyhow, in general, and this another club for lower prices. Pigs opened Monday \$3.40 to \$3.70, then down, stopping to rest on Saturday at \$3.25 to \$3.55. Lights Monday \$3.75 to \$4.12½, and closed \$3.70 to \$3.95. Prime medium and mixed packing started out bravely Monday \$4.05 to \$4.10, but fell by the roadside down a gradual decline until the bottom reached Saturday \$3.80 to \$4. Heavy hogs Monday stood \$4.05 to \$4.17½, but tumbled ingloriously down to near a Mexico level of \$3.85 to \$4.07½. The tops were very frisky on Monday at \$4.17½, then lost 5c. for Tuesday and Wednesday, recovered 2½c. on Thursday and Friday, but fell to \$4.07½ on Saturday. The bulk Monday \$4.05 to \$4.10—steadily down, though fighting bitterly the decline, until they found their feet on \$3.85 to \$4. The shipments for the week 2,951 hogs, against 2,370 hogs previous week. The destination of shipments past week, 4 cars to Ottumwa, 9 cars to Chicago and 1 car to Monterey, Mex.

It was almost a banner week in sheep receipts; we are surely getting to be a sheep eating people. In fact, in receipts and prices paid last week the best of the season. Wool is doing well. Packers are meeting with ready sale of pelts. They are free buyers. Last week Swift received quite a number direct from their sheep feeding pens in various

parts of the country. The feeders received good attention. Prices all around from 10@15c. higher. Some 800 Colorado lambs of 70-lb average at \$5; more at \$4.85 and \$4.75. Colorado yearlings, 92-lb, at \$4.50, sold to Armour. New Mexican lambs, 67-lb average, at \$4.65; some muttons, 113-lb, at \$4.25. Some Western sheep, 65-lb, at \$4.50; some Oregon sheep, 125-lb, at \$4.15; some Kansas, 83-lb, \$4.20, but some 92-lb at \$3.90. A speculator purchased some 1,200 Colorado and New Mexican feeding lambs at \$4.45 and \$4.50. Notwithstanding the large receipts everything found purchasers—either packer or speculator or feeder, and the cry was still for more.

MR. CLEWS' VIEWS.

The following is taken from the columns of an esteemed contemporary:

Comments on the Supreme Court decision are still being indulged in by leading railroad and financial people. Some of them make the decision spell "blue ruin" for the whole country, and of the most ultra-marine tint at that.

Other criticisms of the judgment are decidedly amusing, and that of Mr. Henry Clews, the well-known and reliable banker, contained in a special letter is worthy of a Mark Twain. Mr. Clews observes:

"Under the Sherman anti-trust law, as decided by the United States Supreme Court, it is a question, in my mind, whether it is not illegal to kill hens, as to do so is a restraint upon the egg trade and a combination with the dealer in poultry.

"On the same principle, it is also illegal to kill cows, as to do so is a restraint to the milk trade and may be serious tax on parents who bring their children up on fresh milk.

"The owner of a cow, when he sells it to a butcher to make beef, makes a combination detrimental to the milk trade. Judge Peckham's decision clearly sets forth that combinations, and anything which is a restraint to trade, are illegal under the anti-trust law."

THE SALT TRADE.

The returns just issued for January show that the month has been unsatisfactory, the shipments only reaching 28,861 tons, the lowest for ten years, except in 1893, when the quantity sent was 22,861. The coastwise shipments have been very small, and the other markets have taken below the average, with the exception of the United States, to which more salt has been sent than in the same month last year. There were shipped from Liverpool 25,774 tons of white salt; Runcorn and Ship Canal, 2,084 tons, and Weston Point, 1,003 tons. The rock salt shipments from the respective ports were 2,364, 25 and 14. The total showed a decrease of 4,216 tons on January, 1896; namely: For Liverpool, 3,741; Runcorn and Ship Canal, 422, and Weston Point, 53 tons.

For the past year the Salt Union, Ltd., have declared dividends of 7 per cent. on the preference and 1 per cent. on the ordinary, carrying forward £12,500. For 1895 the ordinary dividend was 2 per cent.

Mr. H. E. Falk, in his circular for the present month, states that the year opens for salt without any material change.—London Grocers' Gazette.

Ventura, Cal.—A gentleman who is backed by capitalists in the East is here for the purpose of securing a location for the erection of a pork packing, ice manufacturing, cold storage and power plant. It is reported that about \$30,000 will be invested at once.

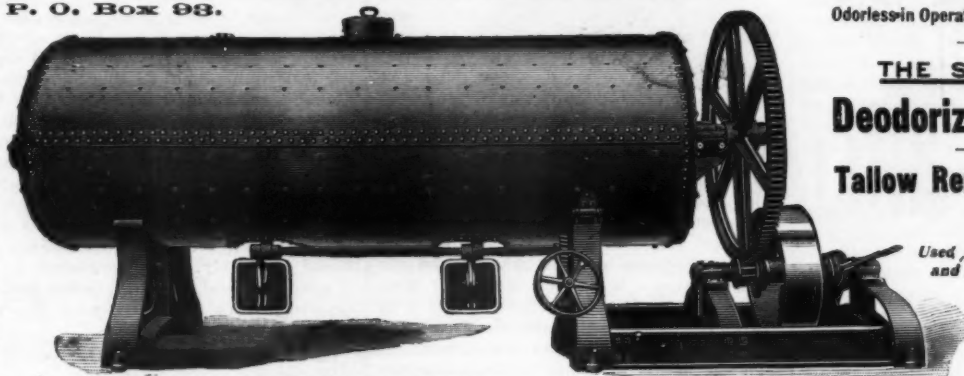
—An effort is to be made by the artificial ice manufacturers in the vicinity to have ordinances passed in both Pittsburg and Allegheny, Penn., prohibiting the sale of impure natural ice.

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Butchers throughout
the country.

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Durable, Efficient. Particularly adapted for the
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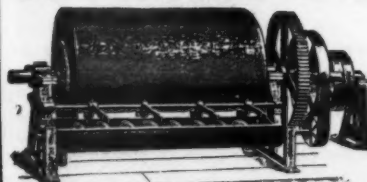
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HIDE AND SKIN MARKETS.

CHICAGO.

PACKER HIDES.—The market this week has been inactive. Receipts of cattle have been somewhat larger than in the preceding week, but prices remain firm. The "Company" is probably the largest and most persistent buyer in the market. Every indication points to a continued scarcity of hides and an advance in price seems unavoidable. The incongruous conditions foreshadowing an increase in the price of hides and at the same time responsible for a falling off in the price of leather is at once an inexplicable and decidedly unpleasant feature of the market. At the present price of hides and the general prices prevailing for the different varieties of sole leather, it is alleged that no margin remains for the tanner, what then, can he expect if the hide market continues firm or strengthens if the late decrease of one cent a pound on crop leather is to be accepted as a precedent. We quote:

No. 1 NATIVE STEERS, 60 lb and up, 9½¢. for all weights. Sales slow.

No. 1 BUTT-BRANDED, 60 lb and up are very strong at 8¼¢@8½¢. Bids at the former quotation have been rejected.

COLORADO STEERS, 60 lb and up are scarce and firmly held at 7½¢@7¾¢.

No. 1 TEXAS, 60 lb and up are in good demand at 8¼¢@8½¢. bid for lightweights.

No. 1 NATIVE COWS, 55 lb and up, free of grubs and brands, sell readily at 8¾¢. Under 55 lb the demand is good at 9¼¢.

BRANDED COWS sell readily, 8¾¢@8½¢. NATIVE BULLS are scarce and in active request at 7¼¢@8¢. flat.

COUNTRY HIDES.—Few are obtainable and these are of an indifferent quality and are commanding a price which affords a goodly profit to sellers but yields little margin to dealers. Any attempt to secure an advance has a congealing influence on the tanners, who claim that the prices obtainable for leather at present preclude the feasibility of purchasing hides at existing figures and consequently renders any advance out of the question.

No. 1 BUFF HIDES, 40 to 60 lb, free of grubs and brands, continue firm at 8¼¢. No. 2's, 7¼¢. First quality scarce; 2's in generous supply.

No. 1 EXTREMES, 25 to 40 lb sell readily at 9¢; No. 2's, 8¼¢.

No. 1 NATIVE STEERS, 60 lb and up, free of grubs and brands, are in limited supply and demand 8¼¢; No. 2's, 7¼¢.

HEAVY COWS, 60 lb and up, free of grubs and brands, are steady at 8¼¢, with No. 2's 7¼¢.

BRANDED STEERS are selling at 7¼¢@7½¢. flat.

BRANDED COWS are in light request and are selling at 7¼¢@7½¢. Sales on flat basis.

NATIVE BULLS continue in meagre supply though the demand has increased. They sell readily at 7¢. for No. 1 and 6¢. for No. 2.

No. 1 CALFSKINS, and No. 2 for that matter, are in indifferent request. Tanners are having little business and manifest no disposition to accumulate, though some of them are well stocked. The depression in this line may be ascribed in a measure to the phenomenal popularity of kid skins, which have, to a very appreciable extent, superseded calfskin as a material for men's colored footwear. Colored kid of every conceivable shade and variety has the '97 call in the medium and better grade of men's and women's summer foot-covering. The quotations on calfskins will average about 11½¢. We say "will average," as sales have been made at a variety of prices for the same qualities.

KIPS, 15 to 25 lb, are selling fancy at 9¼¢. for No. 1 and 8¢. for No. 2.

DEACONS are in light request at 42½¢. for all weights.

SLUNKS, 20@25¢.

HORSEHIDES sell readily at \$2.65@2.75.

KANSAS CITY.

The sales of packer hides keep steadily up to slaughter. Branded stock seems to meet with general favor. The stocks of two leading packers generally on the go, with very little time given in cellar above the actual time to cure. They are going into short haired season in a most glorious trim and a 9¢. Texas steer market—yes, even 9¢. Branded cows seem to be within the possibilities when the shedders give place to the sleek, short haired beauties. Native steers drag somewhat, the 9¼¢. for such truck, as is now taken off, seems to be a good one in every respect. Native cows seem to halt in the past week or two. Not many buyers of 8¾¢. heavy cows, and at 9¼¢. there is very little life in light cows. Tanners seem afraid to risk their hard cash on that price, and they somewhat prefer to try and piece out somehow until the grubby season reign is over. There is no doubt of the scarcity of light cows, in fact of all cows, for branded cows keeping pace with Texas steers is rather a strong picture and tells all eloquently that the breeding business is very brisk all over the West. There would seem to be very little hopes of a break in prices for some few months, all signs point the "up higher," and packers feel a firm ground under them when they try to press prices an ¼¢. higher after every sale.

BOSTON.

This market continues firm although there is little traffic. We quote:

NEW ENGLAND HIDES at from 8½¢@8¾¢.

CALFSKINS are in somewhat increased supply and excellent demand, with quotations unchanged.

PHILADELPHIA.

There is little stock available here and readily taken on arrival. We quote:

CITY STEERS, 8@8½¢.

CITY COWS, 8@8½¢.

COUNTRY STEERS, 7½¢@8¢.

COUNTRY COWS, 7½¢@8¢.

BULLS, CITY, 7¢; No. 2's, 6¢.

CALFSKINS more generous in supply, with downward tendency in price.

NEW YORK.

HIDES.—The market is extremely firm, no hides being offered under current quotations, despite which Union Crop leather has fallen off a cent in this market during the past week. These conditions are generating much comment in the trade. There is little, if any, change in quotations since our last report.

No. 1 NATIVE STEERS, 60 lb and up, 9¼¢.

GRUBBY, 8¼¢.

BUTT-BRANDED STEERS, 60 lb and up, 8¼¢.

SIDE-BRANDED STEERS, 60 lb and up, 7¼¢@7½¢.

COWS, 7¼¢@8¼¢.

BULLS, 7¼¢@7½¢; branded, 5½¢.

COUNTRY COWS, 8¢.

CALF SKINS, 11½¢.

HORSE HIDES, \$2.60@2.75.

SUMMARY.

Traffic in all the hide centers has been very quiet, quotations having been but immaterially changed for the past two weeks. A variety of causes are responsible for the existing depression, prominent among which are a scarcity of stock, a pronounced disinclination on the part of tanners to purchase at current rates, and labor controversies. Apropos of the scarcity, a prominent authority is quoted

as having said that the supply was infinitely more likely to diminish than to increase during the summer. He says that the usual avenues of supply seem almost destitute of offerings and the question as to what new sources may prove prolific is problematical. Despite this, there probably never has been a time in the history of the business when buyers have been more wary than at present. Their necessities are in many cases urgent, but their reason for refusing to buy is too obvious to require any comment. The present seems a particularly unpropitious time for strikes, especially among employes of tanneries. Under the existing circumstances there is but little incentive to activity on the part of tanners, and they are hardly likely to be in a submissive mood. If the rank and file of the "striking" element were but open to conviction on the score that the fate of strikers is always contingent on the trade atmosphere, they would invariably assert themselves in times of prosperity and "lay low" during periods of depression. This is stated as a fact rather than as a suggestion.

CHICAGO PACKER HIDES—

We quote:

Native steers, 60 lb and up, 9¼¢; butt-branded, 60 lb and up, 8¼¢@8½¢; Colorado, 60 lb and up, 7½¢@7¾¢; Texas, 60 lb and up, 8¼¢; branded cows, 8¾¢@8½¢; No. 1 Native steers, 55 lb and up, 8¾¢; light, 9¼¢; Native bulls, 7½¢@8¢. flat.

CHICAGO COUNTRY HIDES—

No. 1 Buffs, 40 to 60 lb, 8¼¢; No. 2's, 7½¢; No. 1 Extremes, 25 to 40 lb, 8¾¢@9¢; No. 2's, 8¼¢; No. 1 native steers, 60 lb and up, 8¼¢; No. 2's, 7¼¢; branded steers, 7¼¢@7½¢; heavy cows, 60 lb and up, 8¼¢; No. 2's, 7¼¢; branded cows, 7¼¢@7½¢; No. 1 native bulls, 7¢; No. 2's, 6¢; Calfskins, 11½¢; Kips, 9¼¢; No. 2's, 8¢; Deacons, 42½¢; Slunks, 20@25¢; horse hides, \$2.60@2.75.

NEW YORK—

No. 1 natives, 60 lb and up, 9¼¢; grubbys, 8½¢; butt-branded steers, 60 lb and up, 8¼¢; side-branded steers, 7¼¢@7½¢; cows, 7¾¢@8¼¢; bulls, 7¼¢@7½¢; country cows, 8¢; country calfskins, 11½¢; horse hides, \$2.60@2.75.

BOSTON—

New England Hides, 8½¢@8¾¢.

PHILADELPHIA—

Country steers, 8@8½¢; country cows, 8@8½¢; country bulls, 6¢.

HIDELETS.

The 'ides of March ('97) are now a matter of history.

R. G. Saloman, the well known Newark cordovan tanner, is now sojourning in Europe.

Richard Young, the Spruce street (New York) sheepskin tanner, started last Tuesday, accompanied by his wife and daughter, on a tour around the world. The Young party will take a Pacific liner from San Francisco on April 10 and will visit Honolulu, China, Japan, Australia, New Zealand, India, and points of interest in Europe.

A. E. Grier, with Booth & Co. New York, visited Philadelphia last Monday.

W. S. Felton, representing the Quaker City Morocco Co., Philadelphia, visited the New York goatskin market last week.

Douglass Marshall has left the employ of the Herman Zohrlaut Leather Co., of Milwaukee.

R. Keresey, of the "Company's" New York office, visited Chicago last week.

The Great Western Fur and Hide Co., of Chicago, have dissolved and given up their charter.

Charlie Zschetzsche, of the famous Sheboygan (Wis.) tanning firm, was a welcome visitor in the Chicago market last week.

E. N. Lapham, agent for the U. S. Leather Co., Chicago, was in New York this week.

Hugh Smith, one of Newark's prominent

NOW AND FOR 19 YEARS THE BEST!**THE ONLY REAL PRESERVATIVE FOR MEATS OF ALL KINDS.**

Prevents Fermentation
and Souring of Meats.
Prevents Skippers,
Slime and Mould.
Prevents the Dangerous
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Gives the Meat a
Uniform Cherry-red Color.

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Prevents Rapid
Shrinkage in Meats.
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Prevents Green Spots
or Meat Turning Gray.
Retains the Juice in Meat
and Keeps it Tender.

THREE DIFFERENT KINDS MADE FOR MEATS:

- "A"** PRESERVATIVE, for Pork and Liver Sausages, Sausage Meat, Chopped Meat, White Puddings, Tenderloins, Fresh Meats, Poultry, Game, Birds, etc.
"B" PRESERVATIVE, for Bolognas, Frankfurters, Summer and all kinds of Smoked Sausages.
"C" PRESERVATIVE, for Curing and Preserving Hams, Shoulders, Pork, Bacon, Tongues, Beef of all kinds and Dry Salted Meats, and for Protecting Smoked, Dry Salted and Fresh Meats against Flies and Skippers.

FULL DIRECTIONS IN EACH PACKAGE.

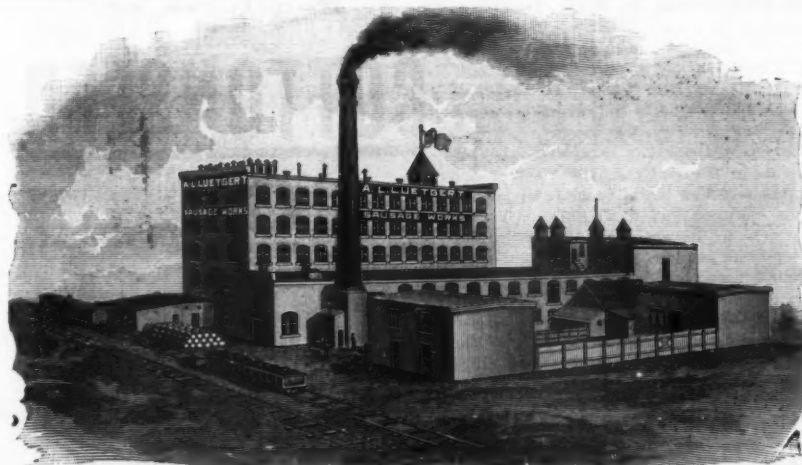
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Size.	Price.	Size.	Price.
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Sausage Casings. Everything in
Butchers' Supplies.

120 Pearl Street, New York.

Fulton and Peoria Sts., Chicago.

patent leather tanners, in company with his family, is touring the South.

Two thousand employes of Chicago tanneries struck last Tuesday for shorter hours. It is claimed that the attitude of both employers and strikers is very determined, and it looks now as though a considerable period might elapse before a satisfactory adjustment is reached.

HOBOKEN BUTCHER GUARDS' BALL.

The first annual ball of the Butcher Guards of Hoboken, N. J., was held there in Odd Fellows' Hall on Tuesday evening last. The attendance was large, the music was all that could be desired, the guests were in the spirit of the occasion, and so the ball couldn't help being the success it was. The spacious hall was tastefully decorated with flags, and the name of the organization in large gold letters was prominently displayed near the stage.

The floor manager was Mr. C. Wehlau, assisted by Mr. Herman Meyer, while the floor committee comprised the Messrs. P. Winberry, F. Kayser, T. Doodly and H. Meyer. The reception committee was composed of Messrs. L. Loeffler, chairman; J. Olofson, G. Melchor and A. Steimbrenner. These gentlemen were on the arrangement committee; Messrs. A. Engelhardt, chairman; J. Thomen, F. Nell and J. Kuhrt.

Among those present, outside of those already mentioned above, were Mayor Fagan, of Hoboken, and other prominent city officials; representatives of the wholesale houses, J. Thomen and wife, Miss Emma Haber, of New York; Miss Jergeson, Leo Loeffel, Miss K. Tauge, J. H. Wakefield, of Brooklyn; George Wentz, John Spae, William H. Winberry and wife, C. F. Harris, manager of Schwarzschild & Sulzberger's Jersey City branch; William C. Stuber, Miss Annie Kollen, Henry Heinson, Miss T. Dunn, Miss Jennie Kelly, Miss Margaret Auth, Miss Lucy Rothmann, L. Vettermann, Paul Schumann and wife, L. Stuber, Miss Roy, G. Apel and wife, Miss A. Schmidt, Fred Schonleber and wife, John Schmidt and wife, Fred Hibbard, Mr. Whiting, of the Hoboken Beef Co.; Capt. Bradley, of the Bradley Towing line, and wife, Charles Bonin and wife, William Schmidt and wife, J. B. Schultis, Fred Hurst, A. Hartmann, Miss Carrie Wagner, W. Kayser and Miss Kayser, Mr. and Mrs. A. Elrich, Miss Etta Weisbach, Mr. David Enoch of New York, a "National Provisioner" representative and many others. It is obvious that the names of all present could not be secured, so those whose names do not appear need not feel that the omission is intentional on our part.

The Hoboken Butcher Guards was organized about three months ago, and as an evidence of its popularity, the fact may be cited that already there are eighty-six names on its roll of membership. In addition to this, the influence of the organization is felt in more ways than one, and the objects for which it was organized are showing practical results.

The officers of the association, to whom no small credit is due for their successful administration of its affairs, are William C. Stuber, president; Henry Heinson, vice-president; F. Nell, financial secretary; J. Thomen, corresponding secretary; Joseph Olofson, treasurer; Aug. Engelhardt, sergeant-at-arms. These gentlemen were, of course, all present at the ball.

The guards held a parade through the principal streets of Hoboken Monday evening last and all along the line they were received with cheers, red fire and other pyrotechnic display, being accorded a special ovation when passing the homes of Mayor Fagan and Alderman Fox. We regret that lack of space prevents our giving a full report of the parade.

There is every reason to believe that the good wishes, "long life and prosperity," so freely extended the association Tuesday night will be fulfilled, and that it will continue to increase and flourish.

NEW YORK CITY AND VICINITY.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our WANT AND FOR SALE COLUMN on page 46.

** Messrs. Angerer & Gruetzner, of 318-322 Flushing avenue, Brooklyn, put up an ice box last week for John H. Horning Bros., of 42 Main street, Brooklyn.

** The United Dressed Beef Co.'s Mutual Aid and Benefit Association, composed of the employes of the company, will hold its regular monthly meeting next Wednesday evening. Business of importance is to be transacted and a full attendance is desired.

** Mr. Louis Scheuer, vice-president of the "S. & S." Employes Mutual Benevolent Association, is talking of organizing a bicycling club among the company's employes.

** The "S. & S." Mutual Benevolent Association will meet next Wednesday evening. The association is in a flourishing condition, and the treasurer informs us that it is likely to have the good fortune to secure from 50 to 70 per cent. of its deposits in the Murray Hill Bank, which went into the hands of a receiver some time ago.

** President Isaac Blumenthal, of the United Dressed Beef Co., returned from his Western trip last Saturday. He visited Chicago and Kansas City and speaks in the highest terms of praise of the courtesy and welcome shown him by the Western packing houses.

** A new fish market was opened this week at 1624 First avenue by M. L. Tomlinson, and fitted up by James McLean, of this city.

** G. B. Reed, Thomaston, Conn., has opened a new market in that city.

** P. J. Kenny, 188 Avenue D, Bayonne, N. J., has had extensive improvements made in his market; new benches, blocks and rails.

** James McLean has completed the improvements at Nauss Bros., 125th street and Third avenue. The entire hanging apparatus has been changed and fixed differently. An entirely new ice house has been built in the cellar, and the regular storage ice house, on the ground floor, has been thoroughly insulated, with 1½-inch air space between the insulation. The same improvement and alterations, we understand, are to be done at the branch house of the same firm, between 118th and 119th streets and Third avenue, and at Fifth street and Second avenue, of this city.

** C. Armerding, 148 Troy avenue, Brooklyn, has had extensive improvements made in

(Continued on page 22.)

COTTONSEED OIL.

WEEKLY REVIEW.

A STAGNANT, WEAK MARKET has followed the improved demand of last week, with scarcely enough doing to establish quotations. Exporters have only taken a few small lots of refined at the North, to fill old shipments or small current orders, or freight room, at concessions. Conditions here have been all in favor of buyers, both as to offerings of oil and freight, but the other side has shown less disposition to take hold than hitherto, if possible. As to whether last week's increased purchases were to cover old sales for March shipment, we are unable to learn; but if so they were limited, and the month has ended without further inquiry, sales having been reported of only 600 to 700 bbls. at 23c. for prime summer yellow in New York, since our last, up to midweek. But whatever the occasion was, of the little improvement a week ago, it is evident that conditions on the other side are still against our market, English oil from Egyptian seed being offered freely still at lower prices than American. Conditions on this side have no effect whatever on the market abroad. It is also claimed that English crushers have still a plentiful supply of Egyptian seed, and hence there is no strengthening tendency at

Josiah Macy's Sons,

Receivers of

COTTONSEED OIL

CRUDE AND REFINED.

191 Front Street
NEW YORK.

THE JACKSON REFRIGERATOR CO.

Cold Storage Architects and Engineers.

PACKING HOUSE PLANTS. We make plans for modern Packing House Plants, with machinery of the latest design for Killing, Rendering, Refining and Making Oleo, Neutral, Glue, Fertilizer, etc. Our plants embody all the most advanced ideas.

MECHANICAL REFRIGERATION. We design complete, mechanical Cold Storage Plants, with valuable improvements in insulation, ventilation and mechanical equipment.

VENTILATION. We make the ventilation of machine refrigerated houses a specialty. Fresh air without condensation or fluctuating temperatures.

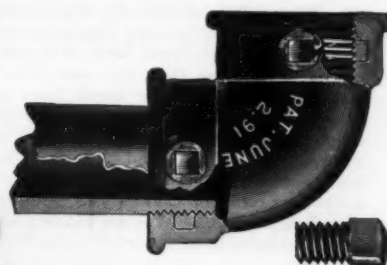
ICE REFRIGERATION. Our new low temperature ice system gives a dry air at 32 degrees, and is unequalled for carrying perishable goods. It produces a purer, sweeter air and better results than most machine houses.

325 SO. DEARBORN STREET, CHICAGO, ILL.

TIGHT JOINT

MALLEABLE IRON

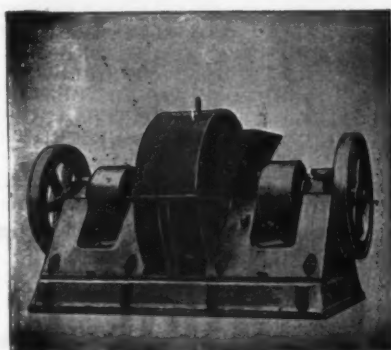
AMMONIA FITTINGS



For ICE & REFRIGERATING MACHINES

NEVER LEAK.

TIGHT JOINT CO., 181-183 BANK ST., N. Y.



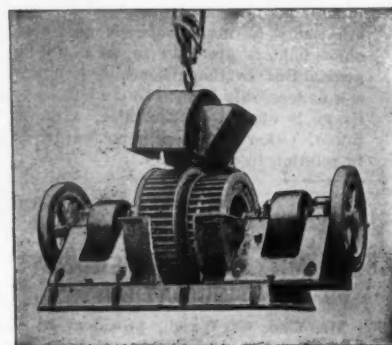
"Stedman's Disintegrators" ARE THE BEST

Are used by nearly every large packing house and fertilizer establishment in the United States. References:

Armour & Co., Chicago and Kansas City.
Swift & Co., Chicago, Kansas City and East St. Louis.
Cudahy Packing Co., Omaha, Neb.

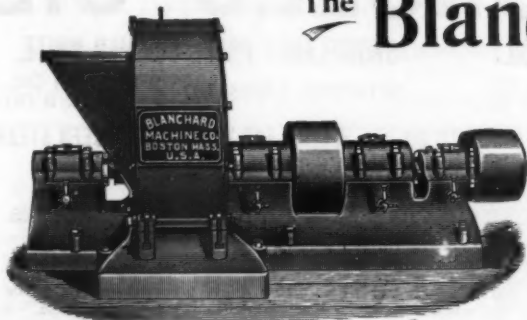
Write for Catalogue and full Descriptive Matter.

We manufacture machinery for equipping complete fertilizer plants, consisting of Disintegrators, Bone Breakers, Mixing Pans, Screening Elevators, Engines, Boilers, Shafting, Pulleys, etc.



Stedman Foundry and Machine Works, AURORA, IND.

The Blanchard Disintegrator



IS THE ONLY UP TO DATE MACHINE.

It is the result of scientific design, backed up by careful tests and long experience. It is not everybody that can build a Disintegrator that will give satisfaction under severe conditions and hard service. To accomplish this result

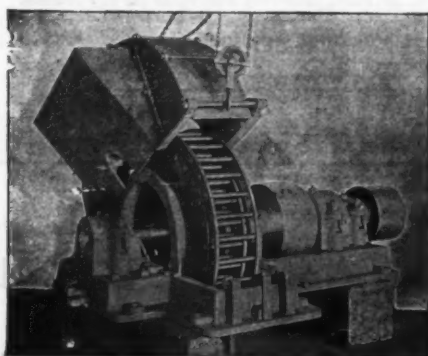
THE CONSTRUCTION MUST BE OF THE VERY HIGHEST GRADE.

The Blanchard Disintegrator will grind Bone, Glue, Tankage, Soap Powder, Caustic, Salt, Chemicals, Sticky and Resinous material, and in fact any brittle or soft material.

Write for catalogue giving full information regarding your material.

BLANCHARD MACHINE CO., 303 Congress St., BOSTON, MASS.

ESTABLISHED 1861.



The ORIGINAL HOLMES & BLANCHARD CO.'S Improved Disintegrators.

THESE MILLS WILL GRIND RAW AND STEAMED BONES, TANKAGE, CHEMICALS, GLUE AND OTHER HARD MATERIALS.

We manufacture all machinery for equipping Fertilizer Plants complete, including Mixers, Elevators and Screens of every description, Automatic Cars, etc. Experienced Engineers furnished to lay out work. Blue prints furnished and estimates given.

PRICES TO SUIT THE TIMES.

HOLMES & BLANCHARD CO.

37 Charlestown Street, Boston, Mass., U. S. A.

Be sure and write us for Prices and Catalogue before placing orders.

the chief source of supply. This leaves a rather gloomy outlook for American oil, especially as refiners have been more indifferent the past week than for some time, and although crushers at the South have maintained the old price of 16c. at the Southeast coast, there have been very few buyers in the market at over 15½c., and only about half a dozen tanks have been reported at 16c. at the Southwest coast for New York. Nothing has been heard from the Western refiners so far. This is absolutely all reported, up to Wednesday night, since our last, excepting a few small job lots of winter at 29c. and white at 26c. Crude in barrels at New York has been scarce at 20½c. asked and 20c. bid, as the supplies coming forward from the South are limited, and stocks there firmly held, as production is about over for the season and stocks as shown in our last two issues, are less than half those of a year ago, if the estimates then given, as current in the trade, were at all near correct, being 25,000 to 30,000 bbls. in New York and 75,000 at the South. At 23c. in New York for prime summer yellow there have been free sellers, which price has been paid for the jobbing lots taken, but a bid for a round lot would doubtless find sellers ready to make concessions, though the chief holders are said to be steady at that price. But in the absence of temptation to sell at less, this is open to doubt, as April delivery is offered at 23c. also, without being taken. Otherwise there is no feature or news in relation to the market.

(For Later Report see Page 40.)

OIL MILL SUPERINTENDENTS' ASSOCIATION.

Mr. Geo. C. Walsh, president of the Oil Mill Superintendent's Association, has forwarded us a circular which is fraught with interest to cotton oil manufacturers, managers and superintendents. The well-being and future of the trade very materially depends upon the co-operation of the individual members in furthering the aims and purposes of this meritorious association, and it is safe to assume that with a better understanding of the general conditions which surround the seed crushing industry, very many of the difficulties which have been encountered in the past, whether with regard to machinery, mill operations or market conditions, will be obviated. In succeeding issues of "The National Provisioner" we purpose referring further to this important matter, and we commend a perusal of the following circular, dated from Temple, Texas, to the entire cottonseed crushing trade:

Oil Mill Superintendent's Association,
Temple, Texas, Feb. 24, 1897.

At the last convention of this association which was held at Waco, Texas, June 5, 1896, it was reported that there seemed to exist among the managers and superintendents very false and erroneous opinions as to the objects and purposes of this association, in view of which it was resolved that our next meeting be an open one and all superintendents and managers be requested to attend and participate. At this convention the objects and purposes of this association will

be thoroughly discussed and set forth, which we trust will dispel all false ideas and demonstrate the usefulness of the association to the business and receive the united support of all managers as well as superintendents. We attach a list of the subjects pertaining to the business which will be discussed, and request all who receive this circular to collect all data possible and be prepared to give his views on these subjects. The next meeting will be held at Houston, Texas, on May 5 and 6, when we sincerely trust you will all attend. Respectfully,

GEO. C. WALSH,
GEO. T. PARKHOUSE,
A. A. VARDELL,
GUS. BAUMGARTEN,
M. B. KOERPER,
Committee.

SUBJECTS FOR DISCUSSION.

HULLS; THEIR VALUE AND USE.—Their value as a fuel as compared with wood, coal and lignite, giving value and consumption of each per ton of seed crushed. Best method of storing, in bulk or bale, and cost of each? What press do you prefer, and why?

HEATERS AND COOKING.—Best material for construction, design preferred for stirrers and speed. Size of heaters preferred, and why? What should be the proper quantity of meal to the heater? Result of deep and shallow cooking on meal and oil? Effect

of high and low pressure in cooking, and the effect on oil and meal? Moisture, natural and artificial. If moisture is applied, the best method. Effect of moisture on meal, oil and cake.

PRESSES.—Their construction and weak points. Drainage, its effects on presses, press-cloth and yield of oil. Hydraulic pressure, manner of applying, and its effect on presses, cloth and yield of oil? Most economical work for a press per day. Most economical weight of cake. Accumulators, their use and benefit. What should be the cost of labor per ton to crush?

There is much talk about a cash basis. The way to reach it easily and naturally is to convince the people that you have a special price for spot cash buyers. You can do this by offering them the Forbes Indexed Coupon Books at a reasonable discount for cash. Try it and notice the increase in your cash business.***

WE ARE SHORT OF COPIES OF THE NATIONAL PROVISIONER OF THE DATES OF JAN. 25, 1896, AND JAN. 9, 1897. WE WOULD BE OBLIGED IF OUR FRIENDS WOULD SEND US COPIES OF THOSE DATES, AND WE WILL CREDIT THEIR SUBSCRIPTION ACCOUNT ACCORDINGLY.

E. H. FERGUSON, President. R. C. WAGGENER, Treasurer. J. J. CAFFEY, Secretary.

KENTUCKY REFINING CO.

LOUISVILLE, KY., U. S. A.

Refiners of All Grades of

COTTONSEED OIL.

"ECLIPSE" BUTTER OIL.

"SNOWFLAKE" PRIME SUMMER WHITE.

SUMMER { White 1/2 S Oil.
Yellow C/S Oil.

WINTER PRESSED { White C/S Oil.
Yellow C/S Oil.

SUMMER AND WINTER WHITE "MINERS'" OIL. YELLOW AND WHITE COTTONSEED STEARINE.
CRUDE C/S OIL. "RED STAR" SOAP. SOAP STOCK.

TANK CARS FURNISHED FREE FOR SALES OR PURCHASES.

SPECIALTIES:

"SNOWFLAKE" PRIME SUMMER WHITE. This oil is prepared especially for Lard Compounding; is sweet and wholesome, being bleached without a particle of acid. A trial means you will use no other.

"ECLIPSE" BUTTER OIL. A strictly choice Vegetable Oil, selected and prepared especially for Butter Manufacturers; equalled by none other for quality and uniformity.

"DELMONICO" COTTON OIL. This brand of Cooking Oil needs no introduction; speaks for itself, and for Culinary Purposes is synonymous with finest.

"NONPAREIL" SALAD OIL. A strictly Winter Pressed Oil, prepared expressly for Druggists, Culinary and Salad Purposes; guaranteed to remain bright and limpid at 32° Fahr.

"KENTUCKY REFINING CO.'S" WINTER PRESSED OILS. Guaranteed pure and to remain bright and limpid at 32° Fahr. The very best made for any climate.

Quotations furnished upon application.

KENTUCKY REFINING CO.
2017 to 2033 Shelby Street, LOUISVILLE, KY.

Cable Address: "REFINERY," LOUISVILLE.

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REFINERS OF

COTTON OIL.

CABLE ADDRESS,
"GLOBE, LOUISVILLE."

Louisville, Ky.

Prime Summer White

FOR LARD COMPOUNDING.

Quality Guaranteed. All Other Grades of Cotton Oil.

DIAMOND FULLING AND SCOURING SOAP.

Obtain our prices before buying.

LOUIS K. FERGUSON, President.

CLEMENS G. HEWITT, Sec. and Treas.

Weir & Craig Manufacturing Co.

2425-2439 WALLACE ST.
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MANUFACTURERS AND
DESIGNERS OF

Special Machinery

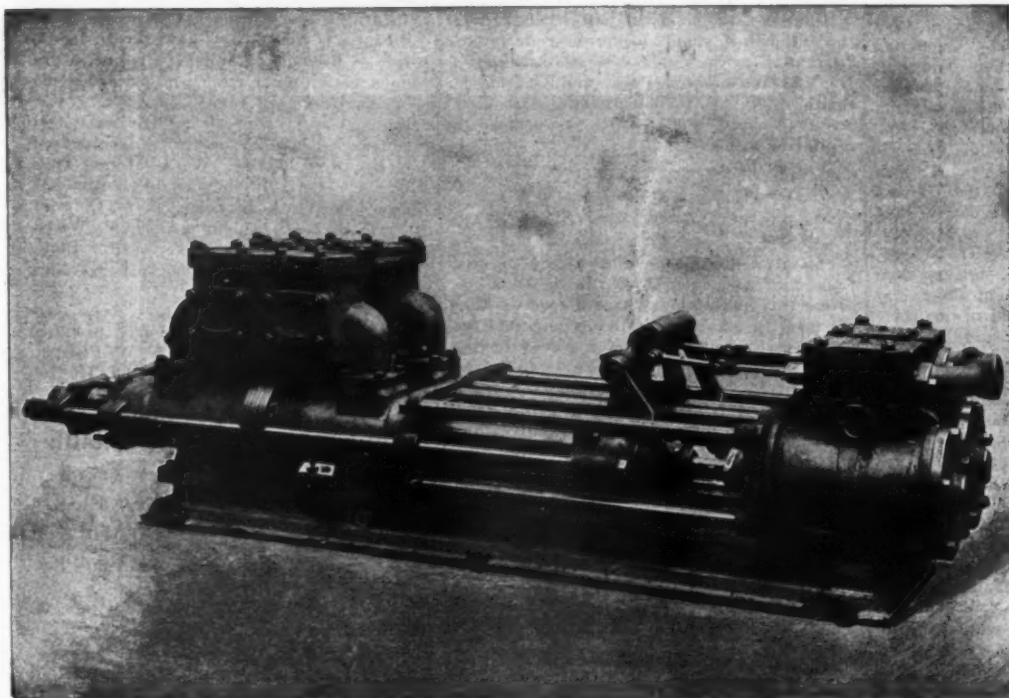
FOR
PACKING HOUSES,
Oleo Oil and Butterine Fac-
tories, Lard Refineries
and Fertilizer Works.

COMPLETE OUTFITS
For Meat Canning, and Beef
Extract Factories.

Friction Elevators, Hoists,
Droppers, Switches, Railing,
Filters, Oleo Oil and Lard
Presses, All kinds of Lard
Coolers, Evaporators, Wash-
ers for Pork or Beef Fat.

Conveyors, Shafting, Hanger
ers and Pulleys, Steam and
Power Pumps, Vacuum, Air
and Artesian Well Pumps,
Shackles, Branders, Fat and
Bone Washers, Bone and
Horn Saws, etc., etc.

Improved Hog Scraper,
Capacity 700 Hogs
per Hour.



These pumps are adopted for Mine, Hydraulic Cranes and Hydraulic Elevators, and where it is necessary to work against heavy pressure and where the water is gritty. The stuffing boxes are all on the outside and easy accessible. They are mounted on an iron frame and require no extra foundation.

William Ottmann & Co.,

PROVISIONS,
POULTRY
AND GAME,

BUTCHERS, PACKERS AND EXPORTERS,

FULTON MARKET

NEW YORK.

G. & D. ISAACS,

Abattoir and Salesroom:
240, 242, 244, 246, 248
Hudson Ave.,
BROOKLYN, N. Y.

WHOLESALE
BUTCHERS

MANUFACTURERS OF

DUESSETT BRAND EXTRA OLEO OIL, Stearine, etc.



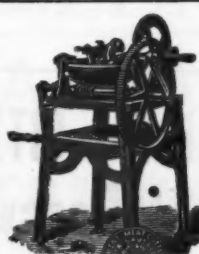
2,000
Machines Sold
OF

NEW SILENT
MEAT CUTTER.

Send for Catalogue.

P. Billingham & Co.,
Trenton, N. J.

New York Agents, S. OPPENHEIMER & CO., 96 & 98 Pearl St.



READ
THE NATIONAL PROVISIONER

"ECLIPSE"

Silent Meat Cutting Machines

Are conceded by the Trade, both in this
country and Europe, to be

THE BEST MACHINES EVER PUT ON
THE MARKET.

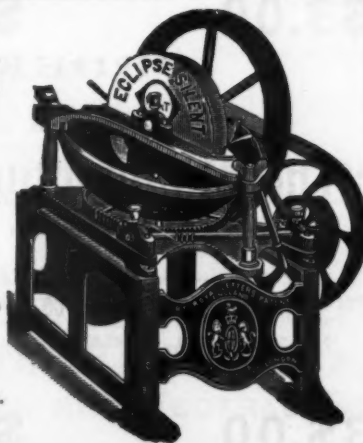
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DUNCAN MACKENZIE,
Union Iron Works

HAMILTON AVENUE, TRENTON, N. J.

Sold also by WOLF, SAYER & HELLER,
Fulton and Peoria Streets, Chicago, Ill.
and 120 Pearl Street, New York.

SEND FOR CATALOGUE.



Directory of Cotton Oil Mills

ALSO OF
BUTTERINE FACTORIES IN EUROPE
APPEARS IN OUR

YELLOW BOOK
THE MANUFACTURE OF
COTTON SEED OIL.
JUST PUBLISHED.

Send Check or Postal Order for \$3.25.

The National Provisioner Publishing Co.,

254-256 Pearl Street,
NEW YORK.

11 Bialto Building,
CHICAGO.

NEW YORK CITY NOTES.

(Continued from page 18.)

has market; a new ice box, insulation and general fixtures.

** Charles Mahr, dealer in meat at 1208 Third avenue, confessed judgment Thursday for \$7,670, in favor of his brothers, Henry J. and Julius D. Mahr, for the amount due on nineteen demand notes, which he gave them for money loaned to him from Jan. 20, 1893, to Feb. 15, 1897. He has been in business here since 1880, had a good stand, and did a large business, but it was said that it was mostly on book account, which made him slow pay at times. Frank G. Wild, his attorney, said that Mr. Mahr had transferred the business to his brothers some time ago, as they had been loaning him money right along, and they thought it was about time to put their claim in judgment. He could give no idea of his liabilities.

** The Board of Health meat inspectors during the week ending March 31, condemned 9,100 lb of beef; 483 lb hogs; 3,600 lb poultry; 8,510 lb veal; and 1,000 lb sheep.

** Two of the most prominent city melters have not reduced the price of calfskins this week and are still giving 15¢@13¢. for Nos. 1 and 2.

** E. Marschieder has made extensive alterations at the palatial meat market of C. Weisbecker, 125th street and Eighth avenue, of this city. One of the principal features is a refrigerator and counter combined with 40 doors, and 88 feet long. We believe we can safely add that it is one of the largest and best pieces of carved workmanship that we have seen.

** Mr. Weil, of the Schwarzschild & Sulzberger Co., is still out West.

** John Boll, of Court street, near Atlantic avenue, Brooklyn, has a new large double decker ice house put in his market this week.

** Geo. Engel, Fifty-seventh street and Second avenue, New York City, has had extensive alterations made in his market, and an addition of a new cellar ice box 11x20 was completed this week.

** The small hamlet of West Livingston, in the Orange Mountains, ought to become famous. One resident has a calf without a tail, another one a calf with two tails, and a local taxidermist is mounting a calf with two heads.

** The poultry commission men of West Washington Market, city, have been doing all the trade this week, say the butchers of the market, which may be construed to mean that business in meats has been quiet and not up to the mark.

** Assignee Charles A. Hess has issued the following notice to the creditors of Sol Sayles, under date of April 1: "Please take notice that as assignee for the benefit of the creditors of Sol Sayles, I will offer for sale, by Philip A. Smyth, auctioneer, at the New York Real Estate Salesroom, 111 Broadway, New York City, on Wednesday, the 28th day of April, 1897, the real estate assigned to me by said Sol Sayles, and known as Nos. 126, 128, 130 Sixth avenue, and 140 and 142 Sixth avenue, in the city of New York. For maps, diagrams and particulars apply to me, or to my attorney, Mark G. Holstein, Esq., 66 Broadway, or Philip A. Smyth, Esq., auctioneer, 11 Pine street."

WALLABOUT MARKET'S NEW REFRIGERATING SYSTEM.

Incorporation papers were filed in the County Clerk's office in Brooklyn Monday by the Market Refrigerating Company, which proposes to furnish compressed air refrigerators in Wallabout Market. A permit granting the company the right to lay its pipes through the streets around the market and to erect a building for compressing air, with a daily

capacity of 150,000 pounds, was granted by Mayor Wurster on Friday. Work on the building is to be begun in about a week, and it is promised that it will be in operation before July 1. If the experiment at the market is a success, the company will, if allowed by the authorities, supply compressed air for refrigeration to the public. W. C. Burling, of No. 193 Washington Park, and Charles F. Smith, of No. 252 Carleton avenue, Brooklyn, are at the head of the company, which has a capital of \$200,000.

ASBESTOS.

This trade-mark, the address, 87 Maiden Lane, and the name, H. W. Johns Manufacturing Co., have been so long associated that the mention of one immediately suggests the other two to those who have served by the varied manufactures of this company. The offices at 87 Maiden Lane were established twenty-five years ago, and it is therefore after long hesitation that a change in address has been decided upon. Department has been added to department and the trade has increased until each has assumed the proportion of a large business in itself and a removal has been absolutely necessary. The ground floor of the new Woodbridge Building, at William, John and Platt streets, has been leased and is now being fitted up for sales-rooms, accounting department and private offices, and the basement for stock. It is to be one of the handsomest offices in the metropolis, and with these increased facilities the company promises even more perfect service to its customers than in the past. The facile power of adapting inventive genius to practical purposes possessed by Mr. Johns, who is still the active head of the business, has rendered his discoveries of the peculiar and valuable properties of this wonderful mineral of the greatest importance to man. The products of asbestos are now indispensable for household and mechanical purposes. Liquid paints, roofing and other fireproof construction materials, heat insulating coverings for steam pipes, boilers, etc., steam packings, fireproof cements, cloth, rope, cord, twine, and numerous other articles which space prevents our mentioning, all bear the trade-mark of this company, which always means excellence.

NEW YORK PRODUCE EXCHANGE NOTES.

Membership tickets are quoted at \$225 to \$250. The market is decidedly more firm than at any time during the present year.

Business is "dead slow" however, to use the words of a leading member, whether in provisions, cotton oil or grain, and prices are discouragingly low all round.

Among the visitors during the week Chicago was well represented, it will be observed. The list is as follows: W. A. Morse, Thos. Rigley, F. C. Aldrich, A. I. Valentine, M. Nelson and W. I. Straight, all of Chicago; also W. R. Irwin, Cincinnati; I. V. Wierdsma, Rotterdam, Holland; S. Alcorn, Philadelphia; W. E. Stevenson and I. A. Karcher, Boston.

The following gentlemen have been proposed for membership: M. E. Berry, proposed by G. Rossen; T. A. Fish, by A. W. Fish; E. A. Moore, by F. H. Andrews; and I. H. Rollins, by A. P. Reilly.

RECENT PATENTS AND TRADE-MARKS.

579628—OUTLET-VALVE FOR FLUID-CONTAINING VESSELS. Wm. C. Wilson, Brooklyn, N. Y., assignor to Francis Raymond, same place. Filed June 29, 1896. Serial No. 597373. (No model.)

579578—WASHING-MACHINE. John R. Hartman, Davenport, Iowa. Filed April 30, 1896. Serial No. 589727. (No model.)

TRADE-MARKS.

29767—ROOFING MATERIAL. John F. Chevalier, Providence, R. I. Filed Feb. 5, 1897. Essential feature: The words "Straight Run." Used since June 18, 1894.

ARE YOU OUT OF EMPLOYMENT? DO YOU WANT A POSITION? TRY A LITTLE AD. ON PAGE 45.



THE CAPITAL CITY DAIRY CO. COLUMBUS, OHIO.

CHURNERS Fancy Quality Butterine.

\$3.00 \$3.00 \$3.00
ORDER FOR BOOK.

Send C. O. D. by express, as soon as published, one copy of your book

"The Manufacture of Cottonseed Oil,"

at the price of Three Dollars per copy.

THE NATIONAL PROVISIONER PUB. CO.,
284-286 PEARL STREET,
NEW YORK.

NAME _____

ADDRESS _____

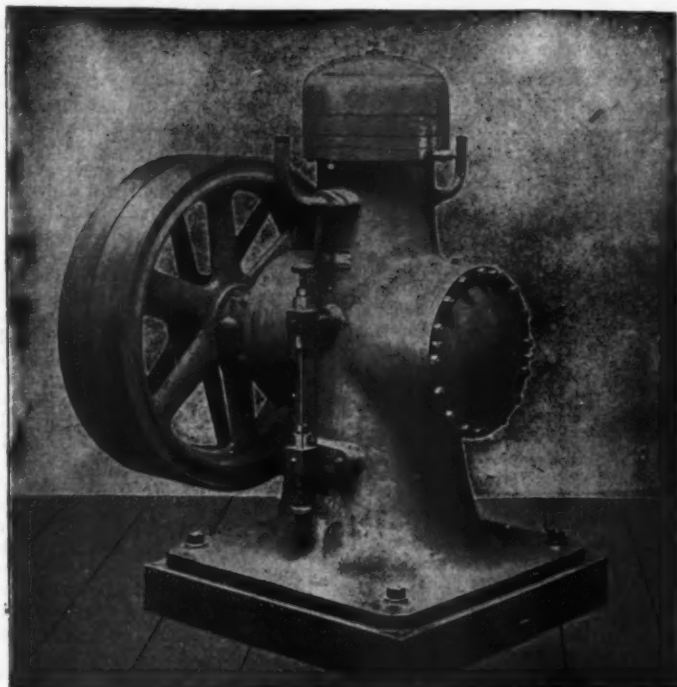
\$3.00 \$3.00 \$3.00

SMALL ICE AND REFRIGERATING MACHINES

AT MODERATE PRICES.

The Simplest, Strongest, Most Efficient, Requires Less Attention.

THIS STYLE $\frac{1}{2}$ to $2\frac{1}{2}$ Tons Refrigerating. OTHER STYLES 3 to 25 Tons.



Stilwell-Bierce & Smith-Vaile Co.,
DAYTON, OHIO.

HAVE YOU GOT IT YET?
SEE COUPON PAGE 26.

WALTER A. BANTA,

(SUCCESSOR TO GEO. A. BANTA REFRIGERATOR CO.)

BUILDER OF

REFRIGERATORS AND FREEZERS

FOR ALL PURPOSES.

SMALL FREEZERS

FOR POULTRY AND GAME

A SPECIALTY.

ESTIMATES AND PLANS FURNISHED FOR THE INSULATION OF PACKING HOUSES, MARKETS AND COLD STORAGE ROOMS.

PORTABLE REFRIGERATORS FOR BUTCHERS AND HOTELS.

...REFER TO...

RICHARD WEBBER, 120th St. & Third Avenue, New York.
S. OPPENHEIMER & CO., 84 Pearl Street, New York.
HALSTEAD & CO., 200 Forsyth Street, New York.
MERCHANT'S REFRIGERATING CO., 161 Chambers Street, New York.
INTERNATIONAL PROVISION CO., Degraw Street, Brooklyn.
DILLON & DOUGLASS, New Haven, Conn., and many others.

BUTCHERS AND GROCERS

When you are in the market for a new Refrigerator or Market Fixtures write to THE SIEBERT REFRIGERATOR WORKS for cuts and prices, the best for the least money in the market.

Builders of Wholesale and Retail Chill Rooms and Supplies.

Write for Plans and Estimates, etc.

Office, Warerooms and Factory: 18TH AND FEDERAL STREETS, CAMDEN N. J.,

FRANK DIESEL CAN CO.



MANUFACTURERS OF

Lard Pails and Meat Cans,
PLAIN AND DECORATED.

Tin Cans and Sheet Metal Work of
all kinds.

STEWART AVENUE,
Bet. 39th and 40th Streets CHICAGO, ILL.

LARD AND OIL
SHIPPING PACKAGES.

AIRTIGHT.

No Summer Cover Needed.



CORRESPOND WITH US.

RECORD MANUFACTURING CO.

Conneaut, Ohio.

Nos. 31 & 33 TENTH AVE.
NEW YORK.

TECHNICAL.

THE PACKING HOUSE.

FOURTH SERIES.

Included in the series of articles on *The Packing House*, the following subjects have been exhaustively treated on the dates indicated:

- Dec. 26, 1896.—"The Manufacture of Sausage Casings and Packing Same."
- Jan. 2, 1897.—"The Manufacture of Sausage Casings and Packing Same." No. 2.
- " 9, 1897.—"The Manufacture of Sausage Casings and Packing Same." No. 3.
— "About Beef Extract."
- " 16, 1897.—"On Cutting Meats (Pork)."
- " 23, 1897.—"The Necessity of Cleanliness in the Handling of Perishable Products."
— "American Swine."
- " 30, 1897.—"American Swine." No. 2.
- Feb. 6, 1897.—"The Preparation of Blood Albumen."
— "American Swine." No. 3.
- " 13, 1897.—"Proper Ventilation in P'king Houses."
- " 20, 1897.—"Proper Ventilation in P'king Houses." No. 2.
- " 27, 1897.—"Proper Ventilation in Packing Houses." No. 3.
- March 6, 1897.—"Proper Ventilation in Packing Houses." No. 4.
- " 13, 1897.—"Proper Ventilation in Packing Houses." No. 5.
- " 20, 1897.—"Proper Ventilation in Packing Houses." No. 6.
- " 27, 1897.—"Steer and Heifer Beef."

STEER AND HEIFER BEEF.

(Continued from last week.)

The following tables show the amounts and kinds of feed, and gains monthly, for Lot No. 1 for the period of eleven months:

LOT 1—FIVE STEERS.

Feed.	Amt. Jan.	Amt. Feb.	Amt. Mch.
Hay	1161	1008	1676
Oil meal	90	198½	232½
Stover	335	432	172½
Bar corn	2115	812½	771
Corn & cob meal..	345	1642½	1977
Beets	60	190	142½
Dry matter per head, daily. . . .	24	24	26.8
Nutritive ratio . .	1:11.4	1:11.3	1:10.6
Monthly gains of lot	527	375	357
Average daily gain of lot	18.82	13.39	11.52

Feed.	Amt. April.	Amt. May.	Amt. June.
Hay	1720	1616	979½
Oil meal	280	380	375
Stover .. . . .	..	45	..
Bar corn	750	350	..
Corn & cob meal..	1950	2390	2486
Beets	7½	..	..
Green clover .. .	..	10	1608
Green peas & oats..	..	..	280
Dry matter per head, daily	26.6	26.2	24.3
Nutritive ratio . .	1:10.6	1:10.4	1:9.9
Monthly gains of lot	343	305	375
Average daily gain of lot	11.43	9.84	12.5

Feed.	Amt. July.	Amt. Aug.	Amt. Sept.
Hay	475	620	300
Oil meal	387½	387½	423½
Corn & cob meal..	2612	2631	2466
Green clover .. .	395	2721	1291
Green peas & oats.	2972	..	..
Green corn fodder.	..	1286	..
Clover hay .. . . .	..	..	345

Snapped corn .....	..	..	155
Flax meal .....	..	..	2
Bran .....	..	..	54
Rape	428	..	..
Dry matter per head, daily	22.3	25.4	22.3
Nutritive ratio ..	1:9.5	1:9.1	1:9.6
Monthly gains of lot	350	445	285
Average daily gain of lot	11.29	14.35	9.5
		Amt. Oct.	Amt. Nov.
Feed.			
Oil meal	323	705	
Corn and cob meal.....	680		
Beets	49	295	
Clover hay	460	281	
Snapped corn.....	3065	4190	
Flax meal	35		
Corn fodder	819	585	
Bran	137	60	
Sheaf oats	60	60	
Dry matter per head, daily ..	24.3	31.3	
Nutritive ratio ..	1:10.6	1:10.8	
Monthly gains of lot	355	315	
Average daily gain of lot.....	11.45	10.5	

Totals for eleven months: Hay, 9555½; oil meal, 3777½; stover, 984½; ear corn, 4798½; corn and cob meal, 19179½; beets, 744; green clover, 6025; green peas and oats, 3252; green corn fodder, 1286; clover hay, 1086; snapped corn, 7410; rape, 428; flax meal, 37½; corn fodder, 1404; bran, 202; sheaf oats, 60.

Monthly gains of lot, 4032; average daily gain per head for entire period, 2.44 lb; average cost of feed per lb of gain for entire period, 5.02c.; total cost of feed of lot for entire period, \$202.47; original cost of five steers, 4063 lb at 3½c., \$143.25; cost of keeping (pasture and corn fodder) from Sept. 12 to Jan. 4, \$20; freight, yardage and commission, \$24.71; total cost, \$390.43; selling price, 7910 lb at 5½c., \$454.82; net profit, \$64.39.

(To be Continued.)

(To be Continued.)

**FOR TREATING COTTONSEED
FOOTS.**

Considerable attention has recently been given to the treating of the "foots" or mucilage obtained in the refining of cottonseed oils. The following process is carried out in several of the leading English refineries:

The "foots" are first placed in the digester, which is connected with a boiler. Live steam is admitted for a sufficient period, then the exhaust cock is opened and the whole mass blown through a pipe into the acidifying vessel or "rousing" tank, where it is treated with sulphuric acid and agitated by mechanical stirrers. The tank is square so as to insure the material being thoroughly broken up, and it is fitted with a live steam firm to maintain the temperature. The acidified "foots" are then drawn off into the separating tank. Here the settling takes place, the green grease floating at the top. This grease is drawn off from a cock provided, and is put into the still. This is heated by a slow fire and a steam superheater, the grease giving off a vapor which is conducted into the refrigerator. This refrigerator has copper coils and water trough, and cocks provided for drawing off the stearine as it is condensed into the copper buckets shown. The essence tank is fitted with a water shower and collects the acid gases and prevents any escape of fumes to the injury of those working the apparatus. The material left in the still is a very fine pitch, much superior to that produced in gas works, and the price obtained for it is so good that cottonseed "foots" are being treated by several firms simply to obtain the pitch.

A BENZOLINE PROCESS OF EXTRACTING OIL FROM SEEDS.

A patent has been issued to William Robert Harrison, of Paragon Chambers, Paragon street, Hull, England, consulting engineer, and Edwin Stephenson, of 3 Withernsea street, oil refiner, Hull, for an improved apparatus and means for extracting oil from seeds or other oleaginous substances by a benzoline process, whereby, it is stated, there is a great saving of time and expense in extracting the oil, together with a greater yield of the same. The inventors say:

For the purpose of our invention we employ preferably two benzoline store tanks of suitable capacity, below the surface of the ground. We also employ an air cistern and preferably two gas generators, each generator being fitted with a dry steam coil in the form of a ring placed in the bottom of each. In any suitable position we employ preferably two circular or other oil-extracting pans, having stirrers driven by any suitable means for receiving the seed, and fitted each with a false perforated bottom, over which is placed a piece of flannel or the like to prevent the meal from being forced through the holes, each extracting pan being fitted with a safety valve. Below the false bottom is a perforated steam coil, and above it is a mouthpiece for the removal of the meal after the oil has been extracted.

We employ preferably three oil-separating tanks, with steam-tight closed covers. Each tank is fitted with two, three, or more services of steam pipes running round the bottom, and a separate tank to each, these being for dry steam, an additional coil with perforations being provided for wet steam.

An oil receiving tank is provided for taking the oil from the separators. We also employ preferably three surface condensers, provided with any desired number of copper tubes, and one or two water tanks for keeping the condensers supplied with water, and an overflow tank for taking the overflow from each condenser. A steam-jacketed meal kettle is provided for drying the meal after it has come from the extracting pans, and a bubble tank may be employed for taking the end of the air escape pipe from the air cistern. We employ a service pipe running from each benzoline tank to each gas generator, for conveying benzoline into the generators, also a service pipe for conveying the vaporized benzoline from each gas generator to each extracting pan. A service pipe is run from each extracting pan for conveying the extracted oil to the oil separators, and a pipe or pipes, with connections, from the bottom of each oil separator, for conveying the separated oil to the ground tank or oil receiver.

The vaporized benzoline is conveyed from each extracting pan to the condensers by means of suitable pipes, a service pipe being employed from each oil separator to the vapor collecting pipes alongside the range of condensers for conveying the vaporized benzoline from the oil separators to the condensers, and for conveying the condensed benzoline from the condensers back to the benzoline store tanks we employ a pipe from each condenser to each benzoline tank.

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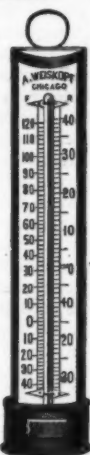
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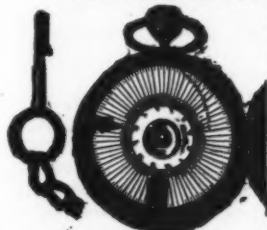
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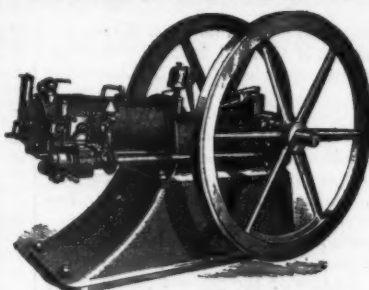
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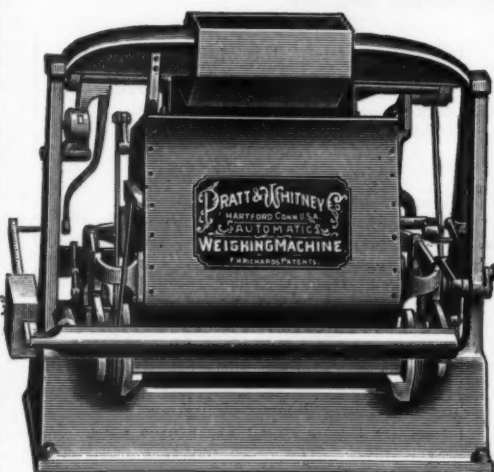
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WANT AND FOR SALE ADS can be found on PAGE 45.

TECHNICAL.

vided from each to a temperature of 120° F., allowing the vapors to pass through a condenser into a vessel placed to receive them, keeping at that temperature till all moisture has ceased to fall into the vessel; the operation is then complete. To use the first three processes, thoroughly saturate the paper in the resulting fluid and then dry. To use the last, thoroughly saturate the paper in a mixture of about 2 parts extract to 16 of water and then dry.

ANSWERS TO CORRESPONDENTS.

We gladly and as promptly as possible answer all reasonable questions in this column sent to us by our SUBSCRIBERS OR ADVERTISERS.

Answers desired by mail should be accompanied by a stamped, addressed envelope.

Persons desiring not to be known as making an inquiry should add a nom de plume to their questions. By so doing they will avoid identification in this column. The correct name and address should, however, for the publisher's satisfaction, accompany each request for information.

G. R. S., NEW YORK.—Rolled hams, boneless, are made by taking the bone entirely from the ham, which is rolled, tied with a string, and marked "Rolled Ham, Boneless."

L. G. D., SCHENECTADY.—Boston shoulders are cut from fairly heavy hogs, shank cut off above knee joint, butted to within one and one-half inch of knuckle joint, breast flap trimmed off, and ham nicely rounded. Average from 8 to 10 lb. They are also known as "Picnic Hams." Averages vary considerably, according to requirements of trade.

TEXAS SUPERINTENDENT.—You will find the particulars concerning cotton oil foots elsewhere in this issue.

J. G. F., BALTIMORE.—A very good scheme for exporting unsmoked sausages is to pack in lard in packages such as may be desired. Other meats have been successfully shipped in this manner also, it being practically impossible for any air to come in contact with the meats. These packages have been returned filled with salt also, in some instances.

F. E. S., DALLAS.—The form of pressure pump best adapted to oil mill purposes depends upon the capacity of the mill. A belt-driven pump is all right for a small mill, but direct-acting steam pressure pumps are desirable for mills of large capacity.

J. G. G., CINCINNATI.—In smoking, hickory wood and hickory sawdust are preferable to any other, although ash and beech will also give a good, sweet smoke. Walnut and all soft woods, particularly pine, should not be used at all. The wood ought only to be used as a means to keep the sawdust smoldering, and great care should be taken, particularly in warm weather, to see that the fire is always well banked, so that it cannot burn freely and create unnecessary heat. The coke fire is made in an open grate about eighteen inches deep, eighteen inches in diameter, on supports two feet high, and can be moved at will. A little sulphur used on the coke fire will add very much to the appearance of the meat and serve as a preventative to flies.

I. MARSHALL, ST. LOUIS.—You will find full particulars of the process you speak of in our book on the "Manufacture of Cotton Oil."

COMPLUSORY ADVERTISING.

The chap, who in the past could do all the business he wanted to without advertising, has been compelled to advertise of late. The advertisement is headed "Sheriff's Sale."

THE RUSSIAN HOG TRADE WITH GERMANY.

The following report from John Karel, the American Consul General at St. Petersburg, will be of considerable interest to American exporters:

The veterinary sanitary measures adopted by the German Government for the protection of German swine breeding have had a great influence on the import of hogs into Germany, which, since their adoption, has greatly decreased.

According to German statistics, the number of hogs imported into Germany during the first nine months of the present year [1896] amounted to only 83,660 head, against 258,637 during the same period in the previous year. The falling off affected the Russian hog export into Upper Silesia, especially. For some time the weekly number of head slaughtered in the four frontier slaughter houses was reduced to 1,350, whereas formerly it amounted to 1,900 head. At the same time that these strict measures against hogs were enforced, the import of pork was prohibited altogether, unless boiled. What effect these restrictions have had upon the pork trade in Germany can be seen from the statement made by the Deutsche Fleischer Zeitung. This journal says the reduction of the import of hogs caused a rapid rise of prices at the interior markets of Germany, from which the consumers suffered, because the home hog raisers were unable to supply the demands of the Upper Silesian region.

The following figures show how much the price of hogs advanced at the German interior markets during the second half of the present year [1896] per 50 kilograms (110 lb):

City.	July 1.	Nov. 12.
Berlin	\$8.81 to \$9.52	\$10.71 to \$11.90
Hamburg ...	8.81 to 10.00	10.71 to 12.14
Breslau (Silesia)	8.00 to 10.00	10.47 to 12.85

The advance of prices was especially hard on the poorer class of people. The workman who formerly purchased cheap Russian pork is forced to replace it now with vegetables. The principal importers of Russian hogs are near the frontier, and having that line of business under their entire control, dictate prices, which the small butchers have to pay or undergo the expense of looking for hogs of domestic breed, which are scarce and command high prices. The butchers suggested many propositions for the regulation of the meat markets and for the suspension of the strict rules regarding the import of Russian hogs, and also for the regulation of the distribution of imported hogs between the importers and butchers. The Deutsche Fleischer Zeitung speaks in detail of the condition of affairs brought on by the government instructions in the Upper Silesian region which uses Russian pork. It says:

A great number of consumers not being able to pay the prices fixed by the butchers, go to Russia themselves to purchase pork, and the butchers of Glewitz write: "The consumption of pork among the lower classes

has decreased greatly; most of them feed on vegetables, although they would like to eat meat, buy the 'distasteful American fat, often unfit for food, and which cannot be considered in any way good for the health.' Home pork is produced in small quantities; it is, therefore, too expensive, and cannot compete with Russian pork. We do not believe that our wholesalers will buy German hogs, because they obtain greater profit from the imported Russian hogs. Our farmers are unable to supply the Upper Silesian market; they produce just about enough to satisfy their own region. The stringency of the meat market can cease only when the butchers receive a sufficient number of imported hogs. From the wholesalers must be taken away the largest share of the import, and thus will be annulled the dependence of the retail butchers upon the wholesale importers, and the working class will have a chance to buy cheap meat again."

The proposition of the butchers was granted. An order of the district administration was issued and sanctioned (Nov. 11) by the Minister of Agriculture, which provides that the weekly number of hogs imported from Russia shall be distributed only among such purchasers as sell meat or meat products directly to the consumers. The wholesalers are allowed to extend their business only in the line of domestic pork, but they claim that it is an infringement upon their rights and their interests; consequently, they intend to make complaint. As to the suspension, or even the modification, of the present regulations concerning import, nothing has been done; on the contrary, according to information, it is proposed to close the Silesian frontier to the admission of foreign hogs into Germany.

SAUSAGE RECEIPTS.

PORK SAUSAGE.—Use nice lean trimmings, well chopped, and to each 40 lb add 8 lb of well boiled rice, and mix well. To this mixture add 1 lb of the following seasoning: 4 oz. best white pepper, 1 oz. cayenne pepper and 1 lb of fine salt, well mixed. This is one of the finest pork sausage recipes extant. Use hog casings for stuffing.

PROCESS FOR LIQUEFYING AIR.

Washington, March 29.—Consul General DeKay at Berlin reports to the State Department the important discovery of a new method by which air may be liquefied cheaply and therefore for practical use in the industries and arts. The chief feature of the new apparatus is the use of compressed air for refrigerating purposes, and in the pump partially compressed air is allowed to cool the incoming air, this process being repeated without the use of chemicals until a fluid like water is obtained. The temperature reached in the process without other refrigeration than the compressed air itself is 273° below zero, when the air pressure liquefies.

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SEE COUPON ON PAGE 26.

TECHNICAL.

SOAP MAKING.

No. 37.

We may now proceed to discuss the methods of making various kinds of domestic soaps:

COMMON PALE SOAP.—This soap is made from tallow and rosin, and is variously known as "pale soap," "XX pale soap," etc. In making this soap the soap boiler has a choice of several methods of procedure, which we will briefly indicate. First, however, a few words as to the tallow and rosin used. For this kind of soap the tallow need not be of the best quality and the cost of the soap may be reduced to some extent by employing a cheaper grade of tallow. A medium quality of rosin may be employed; too dark a rosin should not be used, although most of the color comes out in the process, yet the soap is apt to come out dark in color.

The tallow is saponified in the manner just described and salted out. The soap, after running off the spent lye, is now ready for the rosin; this is added to the soap pan along with fresh alkali and the boiling continued, as before, until the rosin becomes saponified. Rosin practically takes as much lye to saponify it as does tallow; it is, however, more easily saponified.

This boil is known as "the rosin boil." When it is finished the soap is salted out as before; in this case the spent lye does not contain any glycerine, it will be of a dark color, for it will contain much of the coloring matter of the rosin, it may be thrown away. Plenty of time should be allowed for it to settle out, so that the lye may be as free as possible from any particles of fat, rosin or soap. When making soap from rosin and after salting out the contents of the pan usually separate into three layers, sometimes four, as follows, a layer of light, frothy soap on the top. This is collected and sent into the next boiling of soap; secondly, a layer of good soap, which is finished as usual; thirdly, under this a layer of a dark-colored curdy mass—the "nigre," as it is called. This varies very much in color, consistency and extent, according to the quality of the rosin and fats used in making the soap. It is a rather troublesome product to deal with; if not too strongly colored it may be left in the pan and worked up into the next batch of soap, for it consists largely of soapy matter; if it be too dark, then it may be used along with other dark fats in making brown soap. The lowest layer consists of the spent lye; this is dealt with as before mentioned.

After the rosin boil the soap is finished by boiling on strength and fitting, as previously described. In all these operations the nigre will be met with. In running off the "neat soap" or the spent lye it is important not to run any of the nigre into them, as it would affect the grain of the finished soap or interfere with the treatment of the lye.

Some soap makers saponify the rosin with lye before they add it to the tallow soap. Unless they are working the poor grades of rosin and desire to purify it somewhat before mixing with the other constituents, there is no advantage in this course of procedure.

Although the rosin and the tallow may be saponified together, yet it is not advisable to do so, as thereby the spent lye is increased in bulk without increasing its actual contents of glycerine, and this increase in bulk leads to extra cost of boiling down. Then again, the coloring matters and impurities of the rosin getting into the lye add to the difficulties of refining and extracting the glycerine, and it is desirable that these difficulties be minimized as much as possible.

The following are some of the recipes for making this class of soap:

Golden Pale Soap.—15 cwt. mutton tallow, 5 cwt. coconut oil, 5 cwt. bleached palm oil, 6 cwt. window-glass rosin.

Golden Pale Soap.—20 cwt. of tallow, 7 cwt. bleached palm oil, 7 cwt. window-glass rosin.

Crown Pale Soap.—10 cwt. beef tallow, 10 cwt. bone tallow, 5 cwt. palm nut oil, 5 cwt. bleached palm oil, 7½ cwt. rosin.

Primrose Soap.—10 cwt. beef tallow, 10 cwt. mutton tallow, 6 cwt. rosin.

Golden Primrose Soap.—10 cwt. beef tallow, 10 cwt. mutton tallow, 5 cwt. bleached palm oil, 1 cwt. palm oil.

XX Crown Pale Soap.—Cottonseed oil is now coming largely to the fore for making pale soaps for ordinary household soaps, the great improvements which have been made of late years in refining the oil having rendered this possible. Cotton oil is fairly easily saponifiable; it is not so easily salted out as tallow, but, on the other hand, it produces a soap which lathers easily. The following are some recipes for its use: 10 cwt. cottonseed oil, 5 cwt. tallow, 1 cwt. palm oil, 4 cwt. rosin.

Golden Soap.—1½ cwt. cotton oil, 18 lb tallow, 75 lb best rosin, 3 lb palm oil.

Common Soap.—1 cwt. cotton oil, 1 cwt. bone grease, ½ cwt. rosin, ¼ cwt. palm oil.

These recipes will probably be sufficient for the ordinary makes of household soaps; the practical soap maker will know how to vary them to suit his special requirements.

(To be Continued.)

PORK PACKING.

Special reports show the number of hogs packed since March 1 up to March 24 at undermentioned places, compared with last year, as follows:

	1897.	1896.
Chicago	350,000	305,000
Kansas City	162,000	120,000
Omaha	84,000	60,000
St. Louis	87,000	70,000
Indianapolis	32,000	23,000
Cincinnati	43,000	33,000
Milwaukee, Wis.	25,000	24,000
Cudahy, Wis.	17,500	26,000
Cedar Rapids, Iowa	20,600	6,100
Ottumwa, Iowa	27,000	15,700
St. Joseph, Mo.	9,750	10,500
St. Paul, Minn.	10,000	12,000
Cleveland, Ohio	37,000	20,000
Louisville, Ky.	20,000	10,000
Sioux City, Iowa	14,000	12,000
Des Moines, Iowa	3,600	3,600
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THE WEEK'S EXPORTS.

The exports (exclusive of specie) from New York to foreign ports for the week ending March 30 were \$769,133 above those of last week. The following enables comparisons to be made with the corresponding period last year: For the week, 1897, \$8,876,389; 1896, \$7,839,927. The exports for the week include 3,385 gallons lard oil, 599,493 gallons cottonseed oil, 4,435 bbls. pork, 1,893 bbls. beef, 270 tcs. beef, 6,688,238 lb cut meats, 162,421 lb butter, 303,820 lb cheese, 4,177,775 lb lard, 162,750 lb tallow.

ENGLAND'S MEAT EXPORTS.

The imports of fresh meats into Great Britain for February were:

	1897.	1896.
Beef, cwts.	188,234	185,200
Mutton, cwts.	233,659	199,814
Pork, cwts.	36,565	27,982

The total imports for the two months of this year and the corresponding period of two preceding years are as follows:

	1897.	1896.	1895.
Beef, cwts.	400,693	431,216	294,000
Mutton, cwts.	445,101	484,933	351,535
Pork, cwts.	74,971	60,659	54,633

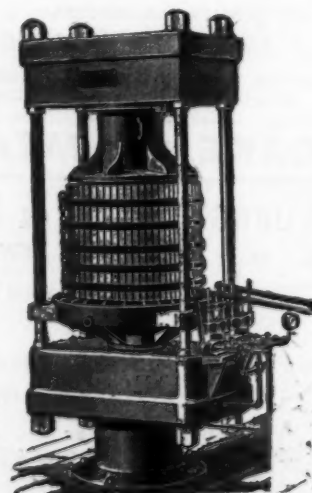
The banker "passes in his checks," the cashier "goes to his last accounts," the mugwump "joins the great majority," the cobbler "breathes his last," the saloon-keeper "seeks the spirit land," the gambler "shuffles off," the stableman "kicks the bucket," the spiritualistic medium "gives up the ghost," the accountant "goes to his long reckoning," the cattleman is "rounded up," but, according to the newspapers, very few people simply "die."—Illustrated Monthly.

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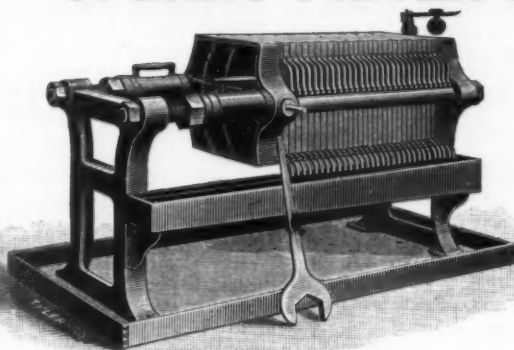
Refer to:—J. M. Horton Ice Cream Co.
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mond Co., Armour Packing Co., Nelson Mor-
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TALLOW, SOAP, GLUE, FERTILIZER AND COTTON OIL TRADE NOTES.

**CORRESPONDENTS, SUBSCRIBERS AND OTHERS
SENDING ITEMS FOR THIS COLUMN SHOULD
MAIL THEM SO AS TO REACH THE
EDITOR NOT LATER THAN THURS-
DAY EVENING.**

Tallow-renderers, soap makers, glue manufacturers, fertilizer manufacturers, and cotton oil manufacturers would do well to make known their wants in this column, which would result in their being placed in immediate correspondence with the leading firms interested in these lines who carefully peruse these notes.

Capt. R. P. Thomas, of San Francisco, owner of the Standard Soap Works, intends to present the town of Berkley, by deed of trust, his home site of thirty-two acres at the north end of the university town. The property is valued at about \$25,000, and is adapted for a park.

Charles Cameron, of Atlanta, Ga., contemplates the erection of a soap factory in Jacksonville, Fla.

The incorporation papers for a new soap company which will be capitalized at \$25,000, and which will have a plant in Haselton, O., employing some fifty hands, have been filed. The incorporators are John Goeppinger, J. F. Morris, George Rudge, Jr., John H. Fitch and T. W. Catling.

There is talk of a soap factory being erected in Dublin, Texas.

A. Jergens & Co., soap manufacturers of Cincinnati, Ohio, will erect a large factory to be run in connection with their old plant. The company, it is reported, has bought out the Woodbury Facial Soap Co., of New York, and the Eastman Perfume Co., of Philadelphia. These two concerns, it is said, will be merged into the Cincinnati company.

The Louisville (Ky.) Soap Company, James P. Curd, president, and William A. Baker, vice-president, assigned Friday of last week to the Columbia Finance and Trust Company. The liabilities are \$8,500 and the nominal assets \$14,500. The business is said to have been hampered by lack of sufficient capital. The managers say the concern will re-

organize and continue in business and the creditors will be paid in full.

F. W. Chapman, who has been engaged at Ellsworth in the manufacture of soap on a small scale for some time, is now negotiating for the purchase of land in Damariscotta, Me., on which to erect a large brick factory building. Mr. Chapman proposes to greatly extend his business.

PACKING HOUSE NOTES.

Manufacturers of machinery and fixtures interested in these notes, should also consult the items under Ice and Refrigeration, and other trade news columns in this paper.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our WANT AND FOR SALE COLUMN on page 46.

Persons contemplating the erection of packing houses or in need of packing house machinery will do well to make their wants known in this column. The foremost firms in the lines mentioned clearly peruse the notes on this page, and prospective purchasers of machinery would be placed in immediate communication with them.

* Legal proceedings have been instituted to oust Philip Shufeldt, Frank Clifton, William McCaw, Harry Fowler and Gilbert T. Spilman from the management of the Minnesota Packing and Provision Company, in St. Paul. The action has been anticipated for some time. It is brought in the district court in St. Paul by the Minnesota Packing and Provision Company, Limited, a corporation of Great Britain. The general ground of the application for the removal of the gentlemen referred to is that they own interests in rival concerns that conflict with those of the Minnesota Packing and Provision Company.

* A. Postill and others in Victoria, B. C., are advancing the idea of a co-operative farmers' pork packing establishment. The project will be discussed in full at the next meeting of the agricultural society.

* J. Stutz & Co. have incorporated in San Francisco to conduct a general butchering business. The capital stock is \$40,000, all of which has been subscribed by the following directors: Jacob Stutz, Frederick Patek, Joseph Rosenberg, John J. Lynch and Moses Stern.

* Fred Conn, owner of large borax beds near Big Pine, Inyo County, California, was a recent visitor in San Francisco.

* Paul Paulson, an Atlantic City (N. J.) butterine agent, was put in jail in Camden, having been convicted of making an illegal sale of butterine, and was sentenced to pay a fine of \$500, which is the minimum penalty under the law.

* The hog cholera plague, says the Chicago Drovers' Journal, has caused losses to the farmers of Iowa this year to the extent of perhaps \$25,000,000.

* Receipts and shipments of hogs at Chicago last week 95,862 and 26,397, or less

again than estimates by about 20,000. Exports from Atlantic coast last week: Pork, 5,230 bbls.; lard, 12,178,000 lb; meats, 21,810 boxes. Receipts and shipments of pork at Chicago last week, 145 and 3,570 bbls; lard, 586,000 and 7,371,000 lb; meats, 2,518,000 and 12,305,000 lb.

* The Great Western Can and Machinery Company purposes erecting a large factory in San Francisco.

* According to a local paper, there seems to be need in Logan, Utah, for the establishment of a packing house. The newspaper referred to says: "One institution in Logan imports 400 lb of pig meat into this city each month. Half a dozen other firms probably import the same amount, making an average of 2,500 lb a month, or 30,000 lb a year. Every few days a carload of hogs is shipped out of Cache Valley. They bring 3 1/4c. per lb, live weight, for fat hogs, and 3c. per lb for feeders. They come back to us cured, and we pay 8c. to 10c. per lb for them. It costs us three times as much to get them back as we receive for them. These figures are appalling. If a packing house were instituted our unemployed men could keep in the valley at least \$18,000 per year. Swine thrive splendidly on barley and alfalfa. This valley is the natural home of all three. Cache could produce 10,000 fat porkers a year, and supply the West."

* Work was begun Thursday of last week by the Schwarzschild & Sulzberger Co. on the excavation for the foundations for the addition to its plant in Kansas City. It is to be a fertilizing and drying plant, the plans for which have been under consideration for some time. A. F. Nathan, general manager of the plant, has closed a contract with a lumber firm for 100,000 feet of lumber that must be on the ground early next week. By that time the foundation will have been completed and work on the building will be commenced. It will be 72x134 feet in dimensions and five stories high and will have a 22-inch fireproof wall. The company's hide cellars are low, and fearing that the Kaw River would rise to such a point that the cellars would be inundated, it was decided to begin work at once and use the fertilizer department for a hide storage house in case this should happen.

* The estimates of stocks at Chicago April 1 are 101,000 bbls. new and 57,000 bbls. old pork, 260,000 lbs. old and new prime lard and 23,000,000 lb ribs.

* The Indianapolis Abattoir Company is now killing for Indianapolis consumption at the rate of 6,300 animals a month. Of these, 1,800 are cattle, 2,500 hogs, 1,000 calves and 1,000 lambs. The largest steers killed average 1,500 lb on foot, or 800 lb dressed. The average weight of the dressed beef sold in that city is 550 lb. Practically all the sheep now being killed are "lambs," the year-old animals still being called lambs. Spring lambs are just beginning to come into mar-

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From Place of Growth.

ket. With the exception of a few hogs, no killing is now done by Indianapolis butchers. The hair of the slaughtered cattle is saved, dried and shipped to the East. Bristles are not saved. With the improvement in the hog the bristles have deteriorated so that they have no market value. Kingan & Co. also slaughter bees for the home market, but their chief local trade is in cured pork products and in fresh pork trimmings and sausage.

* The refitted establishment of the Plumb & Winton Co., pork packers and provision dealers, of 34-38 Middle street, Bridgeport, Conn., is again occupied by the firm after being six months in the hands of carpenters, plumbers and machinists, in consequence of the fire which gutted the entire building last September. The most important feature of the machinery is the freezing apparatus. This was built by the Pennsylvania Iron Works, of Philadelphia. The excellence of the machinery is fully equalled by the quality of the workmanship employed in placing it, and the best of results are secured. The process consists of the compression of ammonia, which is cooled by running water over the compressor, and then forced through pipes in a large tank of brine. The cold brine is piped through the rooms in which the temperature is to be lowered, in the same manner as that in which steam heat is employed. The cold brine produces a temperature of 26° F., 6° below the freezing point. This temperature is steadily maintained.

* Ground has been broken and the plant for the Houston Packing Company is well under way. This plant is to be finished by June 1, and will be one of the most complete plants of Southern Texas. The plans are from William R. Perrin & Co., of Chicago, who have the furnishing of the entire machinery, excepting the ice machinery, boilers and engines, which will be put in by the Pennsylvania Iron Works, of Philadelphia. The plant is being built east of the city, on the old Volksfest Park.

AMONG THE RETAILERS.

The Central Market in Paso Robles, Cal., has changed hands, Frank Cooley assuming full charge of the business.

L. B. Cyr has reopened his butcher shop in in Quigley, Mont.

F. H. Parker & Co. have succeeded J. A. Lutgerding & Co. in the proprietorship of the meat market in Phoenix, Ariz.

W. M. Shearin is building a new house for butcher shop purposes in Colusa, Cal.

Brad. Herberger has bought the meat market of A. Va Dore in Canyon City, Ore.

Pitt & Meeker, proprietors of the Central Meat Market, of Sebastopol, Cal., have dissolved partnership. Mr. Meeker will continue the business.

J. C. Weant and forty-eight other retail

butchers in Salt Lake City, Utah, recently sent in a petition to the common council asking that the license for retail butchers doing a business not to exceed \$500 per month be reduced from \$50 to \$5 per year.

C. W. J. and L. Stumpf, Pueblo, Cal., have organized under the name of the "Pueblo Meat and Fish Co." They have purchased the fixtures of the late Andrews Packing Co.

Wilbur Avery and Philip F. Morrison, of Burke & Avery, provisions, Brockton, Mass., has given a chattel mortgage for \$500.

Thompson & Gibbs, ice, Haverhill, Mass., has given a chattel mortgage for \$758.

Peter H. Kessler, retail meats, Hoboken, N. J., has given a bill of sale for \$250.

The death is announced of J. H. Orr, a broker in hides, of New York City.

POSITION OF THE RETAIL MERCHANT.

The retail merchant stands between the manufacturer and the consumer. He represents the largest class of business men in existence, and makes up the backbone of every community. During panics and hard times the retail merchant is called on to give credit to the laborer and mechanic; he is expected to carry on his shoulders, until prosperity comes, half the population of most cities. When suffering exists the retail merchant is the first man appealed to for charity. In

times of public festivity he, above all others, is expected to contribute liberally. A city is known by the reputation of its retail merchants. They keep up its credit; they give employment to a large number of people; they keep money in constant circulation, and they supply the necessities and luxuries of its people. The retail merchant should, therefore, be the most enterprising of all business men. He should be a good advertiser; he should understand human nature; he should have tact. Every year the retail merchant meets with keener and more bitter competition; every year the margin of his profits is cut down, and every year more and larger demands are made on him. The retail merchant, therefore, more than any other class of business men, needs the most perfect system in conducting his business. If he wishes to be successful he must employ the latest labor and money saving devices; he must be ready when good times come to reap the long delayed harvest. We wish to interest every one of the enterprising retail merchants of this country in our new 1897 model registers and systems for taking care of the transactions between clerks and customers in their stores. We invite correspondence, and stand ready to demonstrate that the merchant who adopts one of our systems is certain to make more money in 1897, than if he refuses to adopt it. Address Department F, the National Cash Register Co., Dayton, Ohio.***



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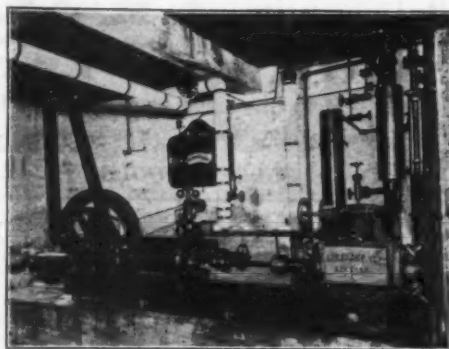
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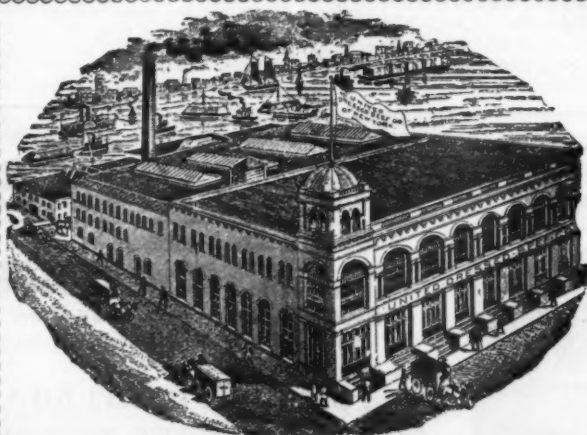
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LEWIS A. LONDON, Secretary.

WANT AND FOR SALE ADS, can be found on PAGE 45.

ICE AND REFRIGERATION.

Those interested in this subject should not forget to look also at Packers' and Slaughterers' Notes, and other trade news columns in this paper.

Employers in want of help, and employees in search of positions, and such wanting to dispose of machinery or desiring to purchase same should look at our **WANT AND FOR SALE COLUMN** on page 46.

Persons in need of an Ice Machine or Refrigerating Appliances should make their wants known to us. Their publication in this column which is perused by the leading ice machine manufacturers in the country would bring scores of replies.

—Chas. Banker's brewery and ice plant in Los Angeles, Cal., was totally destroyed by fire recently. The loss exceeded \$10,000, with no insurance.

—The Ferris and the People's ice companies in Janesville, Wis., have consolidated. The new corporation will be known as the City Ice Company. Mr. Henry C. Tall will act as sole manager.

—The ice house of the Kansas City & Northwestern Railway Company is "Mississippi town," near Kansas City, was destroyed by fire.

—There is talk of a new ice factory for Dublin, Tex.

—The Hygienic Ice Works, Jacksonville, Fla., was expected to resume operations Thursday last. It has been undergoing repairs.

—The Crystal Ice Company has been incorporated in Salt Lake, Utah, with a capital stock of \$2,000. The incorporators are Robert C. McEwan, Joseph Karstenson, Karen Karstenson, Thomas H. Ballentyne and Samuel McEwan, all of Ogden, Utah. The place of business is Ogden City.

—The Reliance Machine Works, of San Francisco, have contracted to furnish G. & M. A. Burdell, of Petaluma, Cal., with a very expensive refrigerating and ice making plant.

—G. W. Myers and M. Dillenburg intend to enlarge their ice plant in Redding, Cal., and increase its capacity five tons. The first floor will be occupied by four large ice tanks.

—An ice factory will be built in Visalia, Cal., at a cost of \$2,139. The capacity will be six tons daily. It is expected to be in operation by April 15. The projectors are W. N. Monroe, M. S. Monroe, S. C. Brown, W. H. Hammond, A. G. Wishon and S. A. Elbow.

—The work is nearly completed on the cold storage warehouse of Wm. Usrey in Dedondo, Cal.

A practical work on Ammonia Refrigeration. Send One Dollar (\$1.00) to THE NATIONAL PROVISIONER, and we will send you one copy of Redwood's Theoretical and Practical Ammonia Refrigeration. 146 pages, cloth bound.

NEPONSET RED ROPE INSULATING PAPER

FOR LINING

Cold Storage Houses

Refrigerators Cars Etc.

F.W. BIRD & SON
EAST WALPOLE, MASS.
THIS PAPER IS ACCEPTED BY THE U.S. GOVT. AS THE STANDARD OF INSULATION

WATERPROOF, AIR TIGHT, CLEAN, A HIGH NON-CONDUCTOR AND ABSOLUTELY ODORLESS.

—Work at the brewery and cold storage plant of Grace Brothers, of Santa Rosa, Cal., is progressing rapidly.

—The Superior Ice Company is placing additional power and machinery in its plant in North St. Louis.

—The Ennis ice factory and lighting plant at Ennis, Texas, has been purchased by M. A. Belcher, of Ennis, and J. E. Campbell, of Kansas. Additional machinery will be installed and improvements will be made to the plant.

—Arrangements for the installation of ice, electric light and water works in the plant of the Hempstead Water Works Co., Hempstead, Texas, have been completed.

A practical work on Ammonia Refrigeration. Send One Dollar (\$1.00) to THE NATIONAL PROVISIONER, and we will send you one copy of Redwood's Theoretical and Practical Ammonia Refrigeration. 146 pages, cloth bound.

CAKE AND MEAL MARKET.

The market for cottonseed products in New Orleans is quiet; prime crude oil in bulk, 15½¢ @ 16¢; prime summer yellow in barrels, 21¢ @ 22¢; meal and cake, 10¢ @ 16.75 per short ton and 17¢ @ 17.50 per long ton for export. Receivers' prices were quoted as follows: Cottonseed, \$7 per ton of 2,000 lb net to the mills, no commission of any kind to be added; cottonseed meal jobbing per carload at depot, 16¢ @ 16.75 per short ton of 2,000 lb; for export per long ton of 2,240 lb f. o. b., 17.50¢ @ 17.75 for current month; oilcake for export, 17.50¢ @ 17.75 per long ton f. o. b.; crude cottonseed oil at wholesale or for shipment, strictly prime in barrels, per gallon, 17¢ @ 17½¢; loose, per gallon, 15½¢ @ 16¢, according to location of mill; refined cottonseed oil, prime in barrels, per gallon, at wholesale or for shipment, 22¢; cottonseed hulls delivered, per 100 lb, according to location of mill, 10¢ @ 15¢; linters, according to style and staple—A, 3¼¢ @ 3½¢; B, 3¼¢ @ 3½¢; C, 2¼¢ @ 2½¢; ashes, none.

CHICAGO PROVISION MARKET.

The market during the past week has been a good deal of a disappointment to the bulls. On Thursday last the highest prices for the week were recorded, May pork selling at \$8.90, May ribs \$4.75 and May lard \$4.30. Since then there has been a gradual decline amounting to 50¢ per barrel in pork, 20¢ per 100 lb in ribs and 15¢ per 100 lb in lard, and the close of the market to-day (Wednesday) is nearly at the bottom of the decline. There have been several causes contributing to the weak market, but probably the most important one is the lack of speculative interest and a very decided falling off in the cash demand.

The cash trade from the South has undoubtedly been very largely influenced by the very extensive floods throughout that section. Hog receipts, with the exception of last Monday and to-day, have been running under the estimates, and the prices at the yards are still high and decidedly above a packing basis. The English crowd, viz., the Continental and International Packing Companies, who have been buying products for some time, are still on that side of the market, but it is not believed that within the past day or two that they have added very largely to their lines already accumulated; but on any weak spots they are supporting the market and preventing any serious declines. Although the market has declined a little the past two days, yet it is rather remarkable that it has not declined more in sympathy with wheat, which sold to-day 3¢ a bushel lower than two days ago. Armour is generally credited with being on the long side of the market, and a buyer of considerable product.

A waiting and hesitating market usually turns into a bear one, and as soon as the roads in the country improve good judges of the situation are predicting larger receipts of hogs, and if this prediction is realized it will take persistent and steady buying to advance prices. From all one can learn of the cash trade leads us to believe that the speculative commodities will sell lower before any ad-

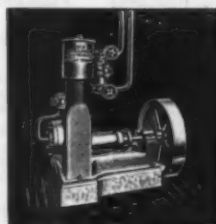
(Continued on page 38.)

REFRIGERATING • MACHINES

For PACKERS, BUTCHERS, COLD STORAGE, WAREHOUSES, ETC.

A First-Class Plant Pays.

DIRECT EXPANSION, BRINE STORAGE, and BRINE CIRCULATING SYSTEMS.



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For Simplicity, Durability, Efficiency and Economy in operation, THEY HAVE NO EQUAL.

OUR SPECIALTY:

2, 4 and 6-TON MACHINES FOR SMALL PLANTS.

For Power we furnish ELECTRIC MOTORS, GAS, GASOLINE or STEAM ENGINES. Estimates and Descriptive Circulars cheerfully furnished.

CREAMERY PACKAGE MFG. CO., 1, 3, 5 West Washington Street, CHICAGO.

THE
DE LA VERGNE REFRIGERATING MACHINE CO.
Manufacturers of
Refrigerating AND Ice-Making Machines
AND ANHYDROUS AMMONIA.

Read the following AWARD from the DIPLOMA received by us from THE WORLD'S COLUMBIAN EXPOSITION.

AWARD.

For production of Anhydrous Ammonia Compressors for refrigerating purposes of First-Class Efficiency, Durability, Design, Workmanship and Finish, having a pair of vertical double-acting compressing cylinders, operating from two cranks driven by a horizontal double-acting steam engine, occupying a minimum floor space for given capacity, with automatic devices for circulating oil through the compressing cylinders for the purpose of securing perfect displacement of gas, of absorbing the heat of compression so as to require no water-jackets.

For first-class design of the ammonia condensing apparatus, involving the use of a special line of pipe-fittings and valves, of superior strength and completeness; for an excellent arrangement of cooling-water distributing surfaces and liquid ammonia collecting pipes, and complete provision for conveniently operating, cleaning and repairing all parts of the system so as to secure steady action under the most economical conditions.

For successful application of the principles of artificial refrigeration, by the direct expansion of ammonia.

For a complete system of constructing Refrigerating Plants and manufacturing specially designed appliances therefor, all of which are undoubtedly the most elaborate and complete fittings for this purpose yet introduced. The exhibitors adhere to the practice of making all pipe joints with screw threads, sealed with a special solder, which is undoubtedly the most secure method of making joints in ammonia work.

Approved.—W. A. JAMES,
Vice-President Departmental Com.

(Signed) J. E. DENTON,
Individual Judge.

Approved.—JOHN BOYD THACHER,
N. H. Chairman Executive
Committee on Awards.

WE BUILD THE MOST SUBSTANTIAL AND DURABLE MACHINES AND PLANTS FOR REFRIGERATION
AND ICE-MAKING MADE IN THE WORLD. THE RECORD MADE BY OUR PLANTS IN OPERATION IS A PROOF
OF THIS FACT.

WE MAKE NO GUARANTEES WE CANNOT FULFILL.

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PHILADELPHIA, Pa., Girard Building, cor. Broad and Chestnut Sts.
ST. LOUIS, Mo., 8th St. and Park Ave.
CHICAGO, Ill., 507-508 Security Building, Madison St. and 5th Ave.

NEW ORLEANS, La., 712 Hennen Building, Cor. Carondelet and Common Sts.
CINCINNATI, O., 5 and 7 Corwine St.
BOSTON, Mass., Tremont Building.

Armour Packing Co.

**Kansas City,
U. S. A.**

PACKERS AND JOBBERS.

**PRODUCER'S WHITE LABEL PURE LEAF LARD.
GOLD BAND HAMS AND BREAKFAST BACON.**

**PRICES MADE ON SWEET PICKLE PORK and
BEEF HAMS UPON APPLICATION.**

**ALL FRESH AND CURED
MEAT PRODUCTS.**

C. J. GARDNER INDIANAPOLIS, IND.

SLAUGHTERER, PACKER AND SHIPPER OF

...Manufacturer of...

TALLOW, HIDES, FERTILIZERS AND
SLAUGHTER HOUSE PRODUCTS.

CORRESPONDENCE SOLICITED.

**Dressed Beef, Sheep,
Lambs, Calves.**

WE SHIP IN OUR OWN
REFRIGERATOR CARS.

LITTLE MONITOR BEEF REFRIGERATOR AND ICE FACTORY.

See Coupon on Page 26.

THE MANUFACTURE OF ICE.

(The following was crowded out last week.)

According to the testimony of an expert, there are probably 3,000,000 tons of ice used in Greater New York in the course of every year. "There are, I suppose," said he, "about thirty plants for the manufacture of ice in the Greater New York."

"By the improved processes it is possible to manufacture ice that is chemically pure, and all artificial ice is far superior in point of purity to almost all natural ice. Where the latter is taken from a mountain lake, which is so sheltered that no dust can get into the ice, and it is frozen under the right conditions, it is practically pure. But such conditions are hard to find, and most of the natural ice sold in the city is far from pure. Artificial ice, however—at least, that made with modern machines—is made from distilled water, and if any sort of care is taken it can be kept absolutely pure. It can be made cheaper than natural ice, can be put on the market, and will probably drive out the natural sort in time. In certain establishments it is found economical to use the exhaust steam for making ice, for it saves distilling water for that purpose."

"I know of an establishment where one ice machine is used for cooling a warehouse; it is necessary to have a second in case of a breakdown, and the second machine is used regularly in making ice, which can thus be turned out at a low cost. They make sixty tons a day. If it should be necessary to use the second machine for the regular business they would have to draw on their reserve, or else buy ice from some one else to supply their customers temporarily. In such a warehouse it is easy to keep ice in reserve, if there is room for it, and as the temperature is readily kept below the freezing point such ice does not deteriorate, as does that in an ordinary ice house."

"There is another point in connection with ice that many people lose sight of. Suppose a 100-lb piece of ice is left on the sidewalk at your house, and suppose that it is allowed by the servant or the janitor of the house to lie there until it weighs 90 lb. You would naturally suppose that you have lost 10 per cent. of the ice. If it is hot weather, however, the chances are that you have lost 50 per cent., or at least 40. That is because of the latent heat that has been absorbed, which will cause the ice to melt much more rapidly than otherwise. There is some latent heat absorbed by ice carried in a wagon, of course, but it is not exposed to the direct rays of the sun to any extent, and where there is a large quantity only that on the outside is exposed."

"It has been demonstrated that it is possible to carry refrigerating fluid—and by that I mean a form of ammonia—in pipes for a distance of two miles, and then it can be carried into houses and other buildings just as gas and water now are. When connected with refrigerators and cooling chambers the refrigeration is under control just as water and gas are, by the turning of a cock or faucet. The degree of cold can also be regulated. An-

hydrous ammonia is used. It liquefies under pressure, and expands into a gas when the pressure is removed. Only in the gaseous form is it a refrigerant. The pressure employed to liquefy it is sufficient to carry it the distance I have named. If this method of refrigerating should be generally employed it would do away with the ice business to a large extent. The objection to it is that it involves tearing up streets in order to lay pipes, and people generally are opposed to anything of that kind, unless there seems to be a real necessity for it."

GRUBS IN HIDES AND SKINS.

Hides and skins in the United States are damaged to the extent of between \$50,000,000 and \$60,000,000 yearly, says Hide and Leather, by the attacks of bot flies or warble flies. The eggs of these insects deposited in the backs of live cattle hatch into large, hungry grubs, which eat their way through a hole in the hide, when ready to emerge as a full-grown fly. Every man who has handled hides or leather has seen these defacing grub holes. It is to the shame of farmers all over the country that this expensive insect pest has not been very considerably exterminated. Its habits are known and the means of combating it are cheap and simple.

We have before us a copy of a book entitled "Insects Affecting Domestic Animals," issued by the Department of Agriculture. This valuable work was prepared under the direction of the Government entomologist, Herbert Osborn, professor of zoology and entomology, Iowa Agricultural College, Ames, Iowa. It contains 302 pages, and is comprehensively illustrated. The Department of Agriculture is to be commended for the excellent work it is doing in disseminating such valuable information. We take the following extracts from the book, which will be of much interest to our readers:

Extent and Manner of Injury.—The losses from warble flies must be considered from three distinct points, only one of which can be estimated with any great accuracy. There are (1) the loss incurred on the hides perforated by the maggots, subjecting them to discount or rejection in the markets; (2) the loss in milk and beef supply caused by the fretting and stampeding due to the presence of the flies when laying eggs, and (3) the loss to the vitality of the animal, its weakened condition, and consequent loss in milk or beef due to the presence of the warbles, with accompanying ulcers in the back, sometimes, it is asserted, resulting in the death of the animal.

Loss on Hides.—This will vary in different countries, both from the actual differences in abundance of warbles and consequent perforation of the hides and from the different rates of discount applied by different dealers. That it is by no means insignificant will appear from the following condensed statements of statistics and evidence on the subject:

As a result of many inquiries and testimony from numerous sources, Miss Ormerod

estimated the loss in England at \$5 per head for cattle.

(To be Continued.)

FACTS WORTH KNOWING.

The Creamery Package Mfg. Co., of Chicago, are the sole manufacturers of the Stallman Compressor. This compressor is famed for simplicity, durability, efficiency and economy in operation.

The Hamburg-American line is the oldest German line and the largest steamship company in the world. It has a fleet of sixty-eight ocean steamers, of which eighteen are the large new twin-screw passenger ships. It proposes to run two summer cruises to the "Land of the Midnight Sun," sailing from New York June 17 and July 22. Illustrated pamphlets and rates will be furnished on application.

Brown Brothers & Co., of 59 Wall street, New York, buy and sell exchange and cable transfers on South Africa, as well as on Great Britain, Europe and Australia. See their new ad in this issue.

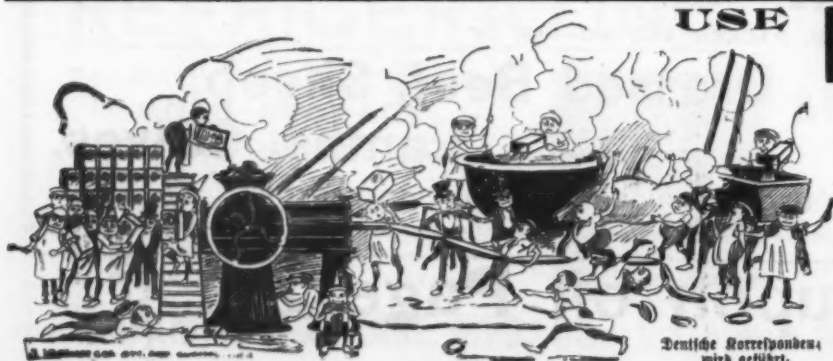
The Enterprise Meat Chopper stands distinctly alone. There is nothing just like it on the market. Its capacity is stated to be 50 per cent greater than the same size of the old pattern meat chopper. It is absolutely noiseless, as there are no gears. Its knives and plates last twice as long. This chopper is manufactured by the Enterprise Mfg. Co., of Philadelphia. They will be pleased to send illustrated, descriptive circulars.

A manufacturer of coupon books claims that a merchant is running a risk of buying coupon books from a jobber where the merchant's name is not printed on each coupon. Let us tell you about coupons. In the first place, no ordinary man could possibly slip in an extra sheet of coupons in one of Allison's coupon books without it being detected. Each book is stitched with two wire staples, and these staples in turn are covered with cloth. If an extra sheet of coupons had been put in the book it would be discovered immediately, as the book would be badly mutilated. A merchant writes his signature on the front cover of each book, and also the name of the party to whom the book was issued. Let us send you a cancelled sample of our book. Allison Coupon Company, Indianapolis, Ind.

THE YELLOW KID IN LEAF LARD.

The Jacob Dold Packing Co. has taken advantage of the yellow kid craze and has utilized that popular representative of juvenility in an attractive ad in an exchange which represents the aforesaid "kid" inside of a barrel on which appears this inscription: "Use only Dold's Government inspected sugar cured Westphalia brand hams and bacon and white rose leaf lard. Why ain't I in it?" The "kid" also holds in each hand respectively, a pail of leaf lard and a ham. And 'tis thus that the "kid" has been rendered useful in the literature of leaf lard by the Jacob Dold Packing Co.***

It is said that the word "Gazette" for a newspaper or periodical originated from the people's natural habit to eagerly "gaze" at the said newspaper's contents.



USE

ROSALINE

Berliner Konservierungs Salze

FOR COLORING THE MEAT IN BOLOGNAS AND FRANKFURTERS.

SAMPLES AND CIRCULARS FREE.

B. HELLER & CO.

MANUFACTURING CHEMISTS,

249-253 South Jefferson Street, CHICAGO, ILL.

The General Agents for the United States and Canada.

Deutsche Korrespondenz wird geführt.

SWIFT'S..... CHICAGO DRESSED Beef, Mutton, Lamb, Veal, Pork

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Can be had at our branch houses in New York, Brooklyn and Jersey City.

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Proprietors.

General Offices,
105 Barclay St., N.Y.

G. F. & E. C. Swift, 105 Barclay st.
Gansvoort Beef Co., 22 and 24 10th ave.
Washington Market Sheep Co., W. Washington Market.
Swift Provision Co., Cor. 13th st. and 10th ave.
G. F. Swift & Co., Manhattan Market (W. 35th st.).
Swift Sheep & Prov'n Co., 11th ave., 34th and 35th sts.

Swift Brothers, 182 and 184 Fort Greene place.
Fort Greene Sheep Co., 172 Fort Greene place.

NEW YORK.

North River Beef Co., Foot W. 30th st.
Riverside Beef Co., 130th st. and 12th ave.
Swift Bros., Morrisania, 769 and 771 Westchester ave.
Harlem Beef Co., Foot East 127th st.
Murray Hill Beef Co., Foot East 31st st.
Centre Market Beef Co., Cor. Centre and Grand sts.

BROOKLYN.

Williamsburgh Beef Co., 100 and 102 N. 6th st.
Brooklyn Beef Co., 74 and 76 Atlantic ave.
Swift Brothers, Wallabout Market.

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Swift and Company, Ninth Street Market, 138 9th st. Swift and Company, Wayne Street Market.

THE CUDAHY PACKING CO.

Packers of REX BRAND

PROVISIONS, CANNED GOODS AND BEEF EXTRACT.

SHIPPERS OF CHOICE

Dressed Beef, Hogs, Sheep, Calves, Beef and Pork Cuts, and all kinds of Tripe and Sausages.

ALSO MANUFACTURERS OF BUTTERINE.

PACKING HOUSES.

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The Cudahy Packing Co., Manhattan Market, New York.
" " " " Manhattanville " "
" " " " Ft. Greene Place, Brooklyn.
" " " " 1 Blackstone St., Boston, Mass.
" " " " Clinton Market, " "
" " " " Worcester, Mass.
" " " " Fall River, " "
" " " " Pittsburg, Pa.
Holmes' Provision Co., Holyoke, Mass.
Nashus Beef Co., " " " "
Lee & Hoyt, " " " "
McElroy Bros., " " " "
Omaha Beef Co., " " " "
Waterbury Beef Co., " " " "
W. W. Coates & Co., " " " "
A. H. Warthman Co., " " " "

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THE JACOB DOLD PACKING CO.

KANSAS CITY, MO.

WESTPHALIA
HAM.

CURERS AND JOBBERS OF
PROVISIONS AND CANNED MEATS

WHITE ROSE
LARD.

ESPECIAL ATTENTION PAID TO FOREIGN TRADE.

AND ALL PACKING HOUSE PRODUCTS.

ANGLO-AMERICAN PROVISION COMPANY, CHICAGO FOWLER BROS. (LIMITED), NEW YORK AND LIVERPOOL.

Pork Packers, Lard Refiners and Sausage Makers.

SOLE PROPRIETORS
OF THE UNRIVALED AND JUSTLY
CELEBRATED
BRANDS OF MEATS AND LARD:

Delmonico Peach and Cherry Brands
OF SMOKED MEATS.
Peach Leaf Lard. Apricot Lard.
ROYAL LILY COMPOUND.

Agents in most of the principal cities in the United States. Correspondence solicited.

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BENTLEY & GERWIG, Limited,

MANUFACTURERS OF

ROPE, TWINE and CORDAGE,

Hide Ropes, Pork Packers and Sausage Twine a specialty. Cotton Waste, etc.

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THE OLDEST ESTABLISHED TWINE HOUSE IN THE TRADE.

Packers, Oil Millers and Fertilizer Manufacturers,

your interests will be served by writing

D. P. WINNE,

338 BROADWAY, NEW YORK,

For prices on TWINES and CORDAGE.

Lowest prices and most Reliable Goods. Guaranteed special goods made for above class of trade.

Battelle & Renwick,

163 FRONT STREET, NEW YORK.

ESTABLISHED 1840.



MANUFACTURERS OF

REFINED SALTPETRE.

CRYSTALS,
GRANULATED,
POWDERED.

FOR PACKERS' USE.

WRITE US FOR PRICES

ON CARLOAD LOTS OF

Dressed Beef, Mutton, Veal and Hogs,
also Sweet Pickled and Smoked
Meats, Kettle-Rendered Lard,
etc.

We are in the great Iowa cattle and hog
belt and think we can do you some good.

TRI-CITY PACKING & PROVISION CO.

Manufacturers and Jobbers.

DAVENPORT, IOWA.

CHICAGO PROVISION MARKET.

(Continued from page 34.)

vance above the past week's range. Of course, there are contingencies possible to arise that would suddenly change the conditions now governing the situation. It is the time of year for the circulator of crop destroying stories to begin his work, and naturally there could be no very material advance in prices of cereals without in some degree affecting the prices of provisions. And the war cloud in Europe, which has as yet by no means disappeared, might suddenly develop into a storm that would result in a rapid advance in the prices of all products; but in the absence of any unusual disturbing influences at home or abroad, all present indications seem to point to still lower prices.

RANGE OF PRICES.

THURSDAY, MARCH 25.

PORK—	Open.	High.	Low.	Close.
May.....	8.77½	8.90	8.75	8.75
July.....	8.90	9.02½	8.72½	8.72½
LARD—				
May.....	4.25	4.30	4.25	4.25
July.....	4.35	4.42½	4.35	4.35
RIBS—				
May.....	4.67½	4.75	4.67½	4.57½
July.....	4.72½	4.77½	4.70	4.72½

FRIDAY, MARCH 26.

PORK—	Open.	High.	Low.	Close.
May.....	8.75	8.75	8.65	8.67½
July.....	8.85	8.85	8.75	8.77½
LARD—				
May.....	4.25	4.25	4.20	4.22½
July.....	4.35	4.35	4.32½	4.35
RIBS—				
May.....	4.65	4.67½	4.62½	4.62½
July.....	4.70	4.70	4.65	4.67½

SATURDAY, MARCH 27.

PORK—	Open.	High.	Low.	Close.
May.....	8.65	8.65	8.55	8.60
July.....	8.70	8.70	8.65	8.70
LARD—				
May.....	4.17½	4.20	4.17½	4.20
July.....	4.30	4.30	4.30	4.30

W. THOS. NASH,
BROKER.

Provisions, Lard, Grease, Etc.
240 LA SALLE ST.,
CHICAGO.

WM. E. WEBBE & CO.
PROVISION BROKERS
807 ROYAL INSURANCE BUILDING,
CHICAGO.

W. J. WEIL, Manager Cash Provision Department.

"BIG FOUR"

THREE GREAT TRAINS.

"KNICKERBOCKER SPECIAL"

BETWEEN

ST. LOUIS, INDIANAPOLIS, CLEVELAND, CINCINNATI
NEW YORK and BOSTON.

"SOUTHWESTERN LIMITED"

BETWEEN

CINCINNATI, COLUMBUS, CLEVELAND,
NEW YORK and BOSTON

"WHITE CITY SPECIAL"

BETWEEN

CINCINNATI, INDIANAPOLIS AND CHICAGO.

E. O. McCORMICK,
Pass. Traffic Mgr.D. B. MARTIN,
Gen. Pass. & Tkt. Agt.

RIBS—	Open.	High.	Low.	Close.
May.....	4.60	4.60	4.57½	4.60
July.....	4.62½	4.65	4.60	4.62½

MONDAY, MARCH 29.

PORK—	Open.	High.	Low.	Close.
May.....	8.50	8.55	8.40	8.55
July.....	8.60	8.65	8.50	8.65
LARD—				
May.....	4.15	4.22½	4.15	4.22½
July.....	4.25	4.35	4.25	4.35
RIBS—				
May.....	4.57½	4.60	4.52½	4.60
July.....	4.60	4.65	4.57½	4.65

TUESDAY, MARCH 30.

PORK—	Open.	High.	Low.	Close.
May.....	8.52½	8.57½	8.50	8.55
July.....	8.67½	8.70	8.62½	8.67½
LARD—				
May.....	4.25	4.25	4.22½	4.25½
July.....	4.35	4.37½	4.35	4.35
RIBS—				
May.....	4.62½	4.65	4.62½	4.65
July.....	4.65	4.70	4.65	4.67½

WEDNESDAY, MARCH 31.

PORK—	Open.	High.	Low.	Close.
May.....	8.47½	8.57½	8.47½	8.57½
July.....	8.60	8.67½	8.60	8.67½
LARD—				
May.....	4.22½	4.22½	4.20	4.22½
July.....	4.32½	4.35	4.30	4.35
RIBS—				
May.....	4.60	4.65	4.60	4.65
July.....	4.67½	4.57½	4.65	4.67½

CASH PROVISIONS.

The cash trade for the past week has been quiet and slack. Not as good a demand as the week before. Difficult to effect sales as current prices. We quote: S. P. hams, 8 to 10 average, 9½c.; 10-12, 9½c.; 12-14, 8½c.; 14-16, 8½c.; 18-20, 8c.; skinned hams, 8½c.; clear bellies, 8-10, 6c.; 10-12, 5½c.; picnic hams, 5-6, 6c.; 6-7, 5½c.; 7-8, 5½c.; 10-12, 5½c.; New York shoulders, 8-10, 5½c.; 10-12, 5½c.; green hams, 10-12, 9c.; 12-14, 8½c.; 14-16, 8½c.; 18-20, 7½c.; green picnics, 5-6, 5½c.; 6-8, 5½c.; 8-10, 5½c.; green shoulders, 8-10, 5½c.; 10-12, 5½c.; skinned, 5½c.; D. S. short clears, 40-50, 5c.; 50-60, 4½c.; D. S. short ribs, 40-50, 4.75; 50-60, 4.65; D. S. clear bellies, 14-16, 5½c.; 18-20, 5c.; 20-25, 4½c.

TIPS ON THE MARKET.

Mr. N. J. Weil, of W. E. Webbe & Co., says of provisions: Markets have been very dull past few days, yet demand for product keeps up well. Green hams traded in large quantities past few days, one local packer taking all on the market at 8½c. for 16 average and 8½c. for 12-lb average. S. P. hams in good demand, but buyers slow to pay advanced prices asked by packers, yet quite a few sold for spot and future delivery. Some demand for old mess pork and fat-back pork, the latter selling at \$8.37@8.50 for 50-60 pieces, but now held at \$8.75@8.90. D. S. meats moving slowly on account of high water in the South cutting off good section of dry salted meat buyers. Market holds well, considering local efforts to depress prices and heavy decline in wheat, and looks as if any buying should spring up will put prices higher. He considers product purchase on all soft spots.

BUSINESS CHANGES.

The Little Rock Oil and Delinting Company, Little Rock, Ark., (incorporated), has given a real estate mortgage of \$10,000.

The City Market Co., Putnam, Conn., is selling out.

Dart & Rau, Rockville, Conn., have dissolved partnership. Succeeded by Frank R. Rau.

O. J. Selander, meat market, New Britain, Conn., has given a real estate mortgage for \$800.

The meat market of Frank S. Ayres, South Norwalk, Conn., has been closed by the sheriff.

A. A. Kennard & Co., butter and cheese, Chicago, Ill., have been granted a license to incorporate. Capital stock, \$20,000.

F. Schmeid, market, Prophetstown, Ill., has sold out.

Goodman & Fitch, meat, Rockford, Ill., have sold out.

G. V. Lindblade, market, Rockford, Ill., has sold out.

E. M. Buchanan, meat, Ashley, Ind., has sold out.

Chas. A. Hergt, butcher, Indianapolis, Ind., has sold out.

SALT SHIPMENTS.

The shipments of salt from the Mersey during the month of February show a considerable falling off as compared with February of last year, the large increase to the United States, British North America, Africa and Australasia being more than neutralized by the very heavy decline in the shipments to Calcutta. The February shipments to the United States amounted to 11,248 tons, against 8,156 tons in February, 1896; those to British North America being 1,610 tons, compared with 620 tons. The total shipments for the month amounted to 30,137 tons, against 35,956 tons in February, 1896.

STOCKS IN NEW YORK.

New York stocks of contract lard April 1. 18,788 tes.; total, 22,576 tes.; last year, 24,697 ditto; last month, 26,153 ditto; old pork, 7,576; last month, 10,767; last year, 4,442 bbls.; new, 1,217; last month, 460; last year, 1,994 barrels.

* The Armour Beef Co., in New Haven, Conn., have had plans drawn for a large two-story brick building which they expect to erect in the near future. The building will cost about \$15,000. Plans have been made for a similar structure which is to be located in Hartford. This latter building will be erected first. It is not expected that the work on the New Haven building will be commenced until summer.

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Supplementary Reports.

PROVISIONS AND LARD.

(Continued from page 10.)

Thursday's markets were stronger and more active, with 22,000 hogs in Chicago, against 24,000 estimated, and 44,000 at the West, against 49,000 a year ago. Packers were moderate buyers, through commission houses, and offerings were light. Pork advanced $5\frac{1}{2}\%$, and closed the same as on Wednesday: lard advanced 5c., and closed $2\frac{1}{2}\%$ up for the day; ribs advanced $5\frac{1}{2}\%$, and closed $2\frac{1}{2}\%$ 5c. better; hogs West were generally lower, in spite of the light receipts, though firmer in New York at the late reaction. Spot lard was quoted 4.45c. asked, with sales of 100 tcs. for export late the night before at that figure, and 500 tcs., to arrive, through for the United Kingdom, by Gledhill, on private terms. City lard was bid 4.10c. and 4.15c. asked, without transactions reported; pork was dull at previous quotations, only 200 bbls. selling; meats were easier in the West for green at $8\frac{1}{4}\%$ 8 $\frac{1}{2}\%$ c. for 16-lb, 8 $\frac{1}{2}\%$ c. for 14-lb, 8 $\frac{1}{2}\%$ c. for 12-lb in Chicago, and S. P. 16s there at $8\frac{1}{4}\%$ 8 $\frac{1}{2}\%$ c. Sales, New York, 500 city pickled hams 9c., 7,000 lb 12-lb ribbed bellies, loose, $5\frac{1}{2}\%$ c., with exporters doing less this week than for three weeks past. Green meats in New York also easier, $9\frac{1}{4}\%$ 9 $\frac{1}{2}\%$ c. for hams, $5\frac{1}{4}\%$ 6 $\frac{1}{2}\%$ c. for bellies; off-grade or "outside" beef hams sold $\$16$ in Chicago for a carload, while tongues were scarce and firm at $\$24.50$ @ $\$25$, New York, for large size, and $\$23.50$ @ $\$24$ for small; tank lard was offered at 4.20c. with no demand, the five tanks done on Wednesday having been at a cut rate of freight. The week's packing of hogs in the West was 265,000, against 250,000 last year. March 1 stocks of meats in the West were 389,000,000, against 357,000,000 lb a year ago; 356,000 tcs. of lard, against 176,000 tcs. a year ago. These figures, though large, seem to have been about as estimated, and had no effect on the market.

Packing March 1 to 25 was 1,045,000 hogs, against 885,000 hogs last season, when marketings were the smallest of any week prior to July 1, 1896.

A Chicago despatch said: Local trade inclined to favor long side. Baldwin has been buyer of ribs. Wolf buyer of ribs and lard; presume for packers.

A trade circular says: Our information from the West is that cholera destroyed not less than 3,000,000 hogs last season in Iowa; that the demand for cured meats from Washington, California, Utah, Colorado and Southern States equals that of almost any preceding season. The export demand keeps stocks at Chicago and central points from accumulating. We perceive no reason why any diminution in demand or price will occur before values reach a much higher level. Speculation is increasing.

Friday's markets at Chicago opened easier on pork, steady on ribs and slow on lard, awaiting reports of stocks, which showed 6,600 tcs. increase in lard at Chicago for month and 17,000 tcs. decrease in the amount afloat for and in Europe, or about 10,000 net decrease outside New York and Western packing points beside Chicago. New pork increased 2,200 bbls.; hams (S. P.) over 4,000,000 lb; ribs (short) nearly 1,000,000 decrease. The detailed report on chief articles was: New pork, 104,000 bbls., March 1 101,800, last year 129,500; old, 48,600; last month, 52,000; last year, 20,900; other kinds, 33,600; 38,000 and 43,500 respectively. Lard, contract, 248,800, 242,200 and 130,000 for same periods; other kinds, 6,500, 9,400 and 7,500 ditto, ditto. S. P. hams, 4,942,500, 72,893,200 and 36,744,000 lb ditto, ditto. Short ribs, 25,848,500, 26,775,900 and 28,112,700 lb ditto,

ditto; "other cuts," 12,634,300, 14,096,000 and 9,020,000 lb ditto, ditto. Liverpool stocks were for same periods, 4,000, 3,000 and 3,100 boxes shoulders; hams, 3,700, 4,600 and 3,600 ditto respectively; pork, 3,500 and 5,200 bbls. last year; bacon, 20,700, 17,400 and 14,800 boxes ditto, ditto; lard, 63,000, 66,000 and 56,000 respectively. European stock lard, 181,000 tcs., afloat for Europe 48,000 tcs.; total, 229,000 tcs.; last month, 246,000, or 17,000 decrease abroad for month.

Trading West was slow all day and changes within $2\frac{1}{2}\%$ 5c. fluctuations, without special feature or activity in anything, to close for the day on pork $7\frac{1}{2}\%$ 10c. off, ribs 5c. off, lard unchanged and steady to firmer. Receipts of hogs West were 50,000, against a holiday last year, and 19,000 at Chicago, as estimated, and 12,000 for Saturday. Mr. Carl Dreier, manager of the Wilcox Company, now on the Continent, writes his company here that "the Angel Gabriel could not sell lard in these markets now." Nothing but the smallest kind of a peddling trade was done in anything for the day, neither home trade, exporters nor refiners being in any of the markets, as stagnation seemed to paralyze the trade in general. Closing prices at New York on Friday evening were Western lard, in tierces, 4.50c. asked; no bids; tank held at 4.20 @ 4.22 $\frac{1}{2}$ c.; city nominal; May nominal; refined, Continent, at 4.75c.; South America, 5.05c.; Brazil, in kegs, 6.15c.; compound, 4 $\frac{1}{4}$ @ 4 $\frac{1}{2}$ c. for city and 4 $\frac{1}{4}$ @ 4 $\frac{1}{2}$ c. for Western; neutral, $5\frac{1}{4}$ @ $5\frac{1}{2}$ c. West and $5\frac{1}{4}$ @ $5\frac{1}{2}$ c. New York asked.

Pork—Mess, $\$9$ @ $\$9.50$; clear, $\$9.50$ @ $\$10.75$; family, $\$9.75$ @ $\$10.50$.

City pickled shoulders, $5\frac{1}{4}\%$ c.; pickled hams, $9\frac{1}{4}$ @ $9\frac{1}{2}$ c.; 10-lb rib bellies, $5\frac{1}{4}\%$ c.; 12-lb rib bellies, $5\frac{1}{2}\%$ c., loose; clear, boxed, bellies, $5\frac{1}{4}$ @ $5\frac{1}{2}$ c. In Chicago—16-lb green hams, $8\frac{1}{2}\%$ c.; 14-lb, $8\frac{1}{2}\%$ c.; 12-lb, $8\frac{1}{2}\%$ c.; 16-lb S. P. hams, $8\frac{1}{4}$ @ $8\frac{1}{2}\%$ c.; California S. P. hams, $5\frac{1}{4}$ @ $5\frac{1}{2}$ c.; green New York City hams, 12-lb, $9\frac{1}{4}\%$ c.; 10-lb, $9\frac{1}{4}\%$ c.; green bellies, $5\frac{1}{4}$ @ $6\frac{1}{2}$ c. for the range.

Beef—Corned and roast, $\$1.10$ @ $\$1.15$ for 1-lb cans; 2-lb cans, $\$1.90$ @ $\$2.10$; 4s, $\$3.95$; 6s, $\$6.25$ @ $\$6.50$; 14-lb., $\$14$; mess, $\$7$ @ $\$8$; packet, $\$7.50$ @ $\$9$; family, $\$9$ @ $\$11$; extra India mess, in tierces, $\$12.50$ @ $\$16$; hams, for both extremes, $\$18$ West for new, $\$16$ for outsiders; cost and freight here, $\$19$; job lots, $\$19$. Tongues— $\$24.50$ @ $\$25$ for large 6-lb average and $\$23.50$ @ $\$24$ for smaller sizes.

A leading German shipper received a cable from Berlin to-day stating it was certain that Germany would retaliate on the United States for its proposed higher tariff and shut out American products. This was given as the cause for a higher Berlin wheat market to-day, in face of lower ones at almost all other points on the Continent and in the United Kingdom. This, said the shipper, threatens disaster to our export trade with Germany.

TALLOW AND STEARINE.

(Continued from page 12.)

Thursday's markets were but little more active, at unchanged prices, with no new business reported in city tallow, of which 200 hhds. were delivered on weekly contract at 3 $\frac{1}{2}\%$ c., the last previous price, this being the first transaction of the week in city stock; hhds., 3 $\frac{1}{2}\%$ c.; country (packages free), $3\frac{1}{4}$ @ $3\frac{1}{2}\%$ c. for ordinary to prime, while German shippers report no bids at all for edible, and English shippers were entirely out of the market. London sales on Wednesday were belated, with 1,200 casks offered and three-fourths of it sold at 3d. advance; yet this did not seem to bring in any orders from there to our markets. Chicago was reported quiet and steady at former prices. Lard stearine nominally unchanged, and very dull, no exporters being in the market and few if any refiners; some pressers, however, were asking 3 $\frac{1}{2}\%$ c. in New York, but others were of-

fering at $4\frac{1}{2}\%$ c., and refiners would not pay over 4 $\frac{1}{2}\%$ c. In oleo oil, 160 bbls. of United and 150 of Harrison's were sold at 38 florins in Rotterdam. Oils of other kinds were quiet and unchanged. Soap makers East and West are still buying stock of all kinds sparingly, as their trade continues poor and behind the average at this season of the year; 250 tierces No. 2 packers' tallow sold in Chicago for export at 2 $\frac{1}{2}\%$ c., and there were rumors of No. 1 at 3 $\frac{1}{2}\%$ c.

Friday's markets were nominally steady at Thursday's quotations, without further business reported, while city tallow in New York was bid 3 $\frac{1}{2}\%$ c. for a few hundred hhds. by an English shipper and 3 $\frac{1}{2}\%$ c. asked, without business up to the close. But this was in a particular brand. French markets utterly indifferent, as they have been for months.

Twenty-five thousand lb city oleo stearine sold in New York at 4 $\frac{1}{2}\%$ c., the attempt to advance prices having failed. Otherwise nothing was reported, and no change throughout the list, and every thing closed flat though steady.

Closing New York prices Friday evening were: City lard stearine at 4 $\frac{1}{2}\%$ c. nominal; Western lard stearine nominal at 4 $\frac{1}{2}\%$ c.; oleo stearine, city, at $4\frac{1}{2}\%$ @ $4\frac{1}{2}\%$ c.; yellow grease stearine, 3 $\frac{1}{2}$ @ $3\frac{1}{2}\%$ c.; white do., $3\frac{1}{2}$ @ $3\frac{1}{2}\%$ c.; tallow stearine nominal; oleo oil, $6\frac{1}{2}\%$ c. for No.

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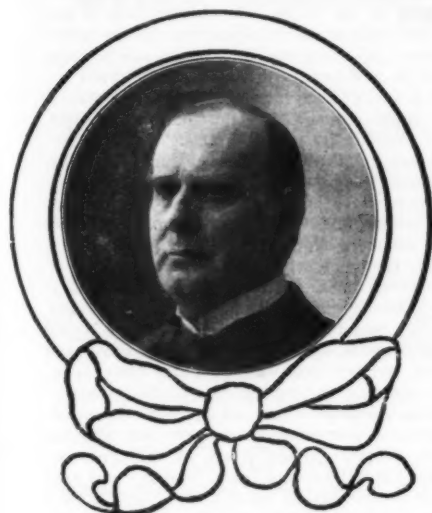
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William McKinley addressed the Convention of The National Cash Register Company, at Dayton, Ohio, October 22, 1895.

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The Secretary of State.

What the Secretary of State Says About Our Work.

On Saturday, October 24, 1896, Hon. John Sherman addressed the International Convention of The National Cash Register Company. He said:

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1, 5½c. for No. 2, and 5c. for No. 3; at Rotterdam, 38 florins; oleo stearine at Chicago, 4½c.; yellow grease stearine, 3½c.; white do., 3½c. nominal. City tallow (charge for hbrs), 3½c.; country (packages free), 3¼c. 3½c., as to quality; edible, 3½c. Chicago prices are: Prime packers', 3¼c. 3½c.; country, 3½c.; No. 2, 2½c. 2½c. Greases.—Brown, 2½c. 2½c.; yellow, 2½c. 2½c.; white, 3 7-16c. 3½c.; bone and soap, 2½c. 3c. At Chicago: 3¼c. for A white, 3 1-16c. 3½c. for B white, 2½c. 2½c. for yellow, 2½c. for brown and 2½c. 3c. for bone.

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Lard oil, prime, city, present make.....	40	a	42
" " Western.....	..	a	..
Neatsfoot oil, white.....	60	a	70
" " prime.....	47	a	53
" " No. 1.....	45	a	48
" " No. 2.....	41	a	43
Red saponified.....	34	a	3½
Red elaine.....	28	a	32
Tallow oil, prime.....	38	a	40
Degras, German.....	1½	a	1½
" English, brown.....	1½	a	2
" " light.....	2½	a	3½
" " French.....	4½	a	5½

COTTONSEED OIL.

(Continued from page 18.)

Thursday's market was nominally unchanged, and a complete blank, except for small sales of yellow on the dock at 22½c. New York, although dealers claim that it was not strictly prime, but that was all that could have been obtained for it in dock lots. Jobbing lots of butter oil are selling at 26c., as well as white, and winter at 29c., while tank was reported easy at 16c. in the Southeast, with 15½c. bid. No exporters whatever were in the market, so far as reported. Crude in bbls. North scarce, and held at 20½c., with a little inquiry at 20c., and 100 bbls. sold New York at 20½c.

Friday's markets were nominal at Thursday's figures, without a transaction reported in anything up to close of 'Change. This was one of, if not the, champion dull weeks on this while crop year, with nothing to relieve the paralysis in any branch of the trade.

Closing New York quotations Friday evening were:

Cottonseed, crude, prime.....		a	20½
" " loose, f. o. b. mills.....	15½	a	16½
" " Summer yellow, prime.....	22½	a	23½
" " " off grade.....		a	22½
" " Yellow, butter grades.....		a	26
" " White, prime.....		a	26
" " Winter.....		a	29



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NOTES ON THE AUSTRALIAN FROZEN MEAT TRADE.

(Continued.)

The growth of the cold store movement in Great Britain has been slow compared with other countries, and the gradual but sure progress now being made is no doubt owed to the frozen meat trade. Latest computations give the cold store capacity of London as equal to about 1,000,000 carcasses of 60-lb weight, and perhaps the provincial accommodation covers another half million. An unfortunate feature of the colonial trade is the practice of holding very large stocks in London, and the store enterprise has been stimulated thereby, to the gain of the store proprietor and the loss to the colonial producer. In Manchester, Liverpool, Birmingham, Leeds, Sheffield, Cardiff, Bristol and other places, large public cold stores are available

for dealers in frozen meat; and Scotland, which has lagged behind very much in participating in the trade, will shortly have a fine public cold store at Glasgow. In the provinces cold stores are united with ice making, and if well managed and properly fitted return an excellent profit to the shareholders. It seems difficult to understand how a city can conduct its provision trade without cold storage facilities. The great meat carrying vessels that cross the ocean with their frozen cargoes are a branch of this subject, and an interesting one, too. A list recently prepared of steamers engaged in the Australasian trade shows eighty-seven vessels belonging to seventeen lines, with an estimated capacity of 3,500,000 carcasses of sheep. The volume of the frozen meat and dairy produce trade equals about 4,000,000 carcasses yearly. All these shrewd ship owners must have been convinced of the permanence of the industry before putting their money into freezing plants. A new steamer of 6,000 tons, able to carry 100,000 frozen sheep, of the type favored for the produce trade, will not cost far short of £100,000 to build, and to put a duplicate freezing plant and insulated space into such a ship makes a hole in £20,000.

(To be Continued.)

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F. EPPNER. Die deutsche Wurstfabrikation (Todt). \$0.75.

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Will hold a large number of Deeds, Mortgages, In-
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NEW YORK MARKETS. OCEAN FREIGHTS.

The market is without change since our last and very little export business is proceeding, berth freights continuing dull and rates nominal. Cotton oil has moved freely for Marseilles at 3s. 9d. Tallow canned meats and bacon are quoted at 15c. to Liverpool and tierced lard at 13s. 9d.

LIVE CATTLE.

BEEVES.—Receipts, 191 head; no trading. European cables quote American steers at 11 @12c.; sheep, 9@10c.; refrigerator beef, 10 @10c. Exports to-day, 667 beeves and 2,390 quarters of beef.

CALVES.—Receipts, 26 head; market steady; all sold. Poor to prime veals quotable at \$4@5.50.

SHEEP AND LAMBS.—Receipts 1,155 head; on sale, 6½ cars. Market quiet, but fully as strong as yesterday. About 200 head unsold. Sheep, \$4.50@5.25; lambs, \$6@6.40.

HOGS.—Receipts, 3,006 head; market steady at \$4.20@4.50.

LIVE CALVES.

Lower prices and only fair demand at fully 25c. off prime selected. Nothing, however, below \$4.50. We quote:

Live veal calves prime.....	a 6 25
" " fair to good.....	5 50 a 5 75
" " common to medium.....	4 50 a 5 50
Barnyards.....	2 50 a 3 50

LIVE SHEEP AND LAMBS.

The market has improved a little with a better demand, choice selected lambs fully realizing 25@50c. on last week's quotations. We quote:

Common to prime sheep.....	3 75 a 4 50
Selected.....	5 00 a 5 25
Medium to choice lambs.....	5 00 a 5 50
Selected.....	6 00 a 6 75

LIVE HOGS.

The markets are very irregular. Shipments from Buffalo are light. States are fair. Hogs are in fair demand, but not fetching above \$4.40. Nothing in pigs under \$4.55. Roughs the same as last week. We quote:

Hogs, heavy.....	4 25 a 4 40
Hogs, light to medium.....	4 40
Pigs.....	4 55
Roughs.....	3 00 a 3 50

DRESSED HOGS.

The market continues to advance. Nothing below 6c. in dressed pigs. Country dressed firm and in good demand. We quote:

Hogs, 160 and over.....	5½
Hogs, 140 and over.....	5½
Hogs, 120 and over.....	5½
Pigs, light.....	6
Pigs, medium.....	6
Country dressed.....	5½ a 7½

DRESSED SHEEP AND LAMBS.

Although the demand is anything but brisk the small receipts have occasioned a further advance of fully 1c. We quote:

Good to choice lambs.....	10 a 11
Common to medium lambs.....	9 a 10
Good to prime sheep.....	8 a 9
Common to medium.....	7 a 8

DRESSED BEEF.

Native prices are about the same as last week, with a slightly better demand, although good beef is still scarce. Better supply of Western, with a trifle advance. We quote:

Choice Native, heavy.....	7½ a 8
" " light.....	7½ a 7¾
Common to fair Native.....	6¾ a 7¾
Choice Western, heavy.....	7 a 7½
" " light.....	6¾ a 7
Good to prime Western.....	6¾ a 7
Common to fair Texan.....	6 a 6½
Good to choice Heifers.....	6 a 6½
Common to fair Heifers.....	6 a 6½
Choice Cows.....	6 a 6½
Common to fair Cows.....	5½ a 6
Good to choice Oxen and Steers.....	5½ a 6
Common to fair Oxen and Steers.....	5½ a 6
Choice Bulls.....	5½ a 6
Common Bulls and Cows for Bologna.....	5½

DRESSED CALVES.

Market is weak, with a full cent a pound lower; however, a few choice parcels of city dressed fetched 10c. We quote:

City dressed.....	6 a 10
Country dressed, choice.....	7 a 8
" " good.....	6 a 7
" " common.....	5 a 6

PROVISIONS.

The tone of the market is good, with a fair demand. Nothing in smoked hams less than 9½c. Smoked beef tongues are fetching 2c. per lb more and fresh pork loins are going well at 8@8½c. Western markets are very firm. We quote:

(JOBBER TRADE).

Smoked hams, 10 lbs. average.....	10 a 10½
" " 12 to 14 ".....	10 a 10
" " heavy.....	9½ a 10
California hams, smoked, light.....	8¾ a 9
" " heavy.....	6 a 6½
Smoked bacon, boneless.....	8 a 8½
" (rib in).....	7½ a 8½
Dried beef sets.....	12½ a 13
Smoked beef tongues, per lb.....	14 a 16
" shoulders.....	6 a 6½
Pickled bellies, light.....	6½ a 7
" heavy.....	5½ a 6
Fresh pork loins.....	8 a 8½
Pork tenderloins.....	15 a 16

DRESSED POULTRY.

Receipts of fresh killed fowls are moderate and the market is firm, although only moderately active. Selected small fowls reached 10c., but nearly all lots show a large proportion of heavy fowls, and for average 9½c. is all that could be reached. Soft meat Western chickens would sell promptly at full prices, but few, if any, straight lots good enough to exceed 7@8c. Turkeys nearly all poor and very dull. Philadelphia broilers and soft meat roasted chickens in good demand and firm. Fresh capons, large and choice, in good demand and prices firmly sustained. Squabs slow and tending to accumulate, with tone easy. Ducks and geese slow. Frozen poultry has only a peddling demand. We quote:

Turkeys, fancy quality, hens.....	a 12
" " fair to medium.....	10½ a 11½
" " old, Tom.....	9 a 10
" " young, Tom.....	9 a 10
Hens, frozen.....	12½ a 13
Chickens, selected, Phila.....	15 a 17
" " good to prime, Phila.....	15 a 14
" " common to medium, Phila.....	11 a 13
" " Western, dry-picked.....	9 a 9½
" " scalded.....	9 a 9½
" " coarse.....	7 a 8
Fowls, prime, State, Penn. and Western.....	9 a 9½
common to good, Western.....	7 a 8
Old Cocks.....	12 a 13
Ducks, choice.....	8 a 10
Geese, choice.....	2 25 a 2 50
Squabs, per doz., white.....	1 25 a 1 50
" " small, poor.....	1 25 a 1 50
Capons, Phila., large.....	a 15
" " slips.....	10 a 11
" " Western, large.....	13 a 14
" " slips.....	10 a 11

LIVE POULTRY.

The market continues fairly firm under a good demand, and prices show a slight advance. Western fowls sold mainly at 9½c. and Southern and Southwestern at 9c. Chickens advanced to 9c. for best Western and old roosters found buyers at 5½@6c. Turkeys steady. Ducks and geese dull. Pigeons weak. We quote:

Turkeys.....	10 a 11
Fowls, Local and Western, per lb.....	a 9½
" " Southwestern.....	a 9
Chickens, local and Western, per lb.....	8½ a 9
Ducks, per pair, Western.....	65 a 80
" " Southern.....	50 a 60
Geese, per pair, Western.....	1 12 a 1 37
" " Southern.....	1 00 a 1 12
Roosters, per lb.....	5½ a 6
Pigeons, per pair.....	25 a 30

GAME.

Choice quail is in good demand at advanced prices. Grouse and partridge slow. The prices for the remainder of the list holds good as last week. We quote:

Quail, choice, per doz.....	1 50 a 1 65
" " small, inferior, per doz.....	75 a 1 00
Partridges, undrawn, per pair.....	65 a 75
Grouse, per pair, pin tails.....	65 a 75
Venison, whole, per lb.....	a 10
" " saddles, per lb.....	12 a 14
Prairie chickens.....	90 a 1 00
English Snipe, per doz.....	1 00 a 1 50
Golden plover, per doz.....	1 00 a 1 50

FISH.

FRIDAY MORNING, APRIL 2.

Cod, heads off.....	4 a 5
" " heads on.....	1½ a 2½
Halibut.....	15 a 16
Striped bass.....	10 a 12
Bluefish.....	5 a 7
Eels, skinned.....	7 a 10
" " skin on.....	5 a 6
White perch.....	4 a 6
Flounders.....	3 a 4
Salmon, frozen.....	8 a 10
Smelts.....	4 a 6
" " green.....	6 a 12
Lobsters.....	8 a 15

Herrings.....	1½ a 2
Red snappers.....	3 a 8
Mackerel, small.....	2½ a 3
Shad, roes.....	22 a 30
" " bucks.....	10 a 14
Scallops.....	1 00 a 1 25
Soft crabs.....	1 25 a 1 50

BUTCHERS' SUNDRIES.

Fresh Beef Tongue.....	45 to 60c
Calves' heads, scalded.....	35 to 40c a piece
Sweet breads.....	30 to 75c a pair
Calves' livers.....	30 to 60c a piece
Beef kidneys.....	8 to 10c a piece
Mutton kidneys.....	40 a piece
Livers, beef.....	40 to 60c a piece
Oxtails.....	6 to 8c a piece
Hearts, beef.....	11 to 15c a piece
Rolls, beef.....	10 to 12c a lb
Butts, beef.....	6 to 8c a lb
Tenderloins, beef.....	18 to 25c a lb
Lambs' fries.....	7 to 8c a pair

BUTTER.

Creamery, Western, extras, per lb.....	a 23
" " firsts.....	21 a 22
" " seconds.....	17 a 19
" " thirds.....	15 a 16
" " State, finest.....	21½ a 22
" " thirds to firsts.....	15 a 21
State dairy, half tubs, fresh, fancy.....	15 a 20
" " half-ark tubs, firsts.....	18 a 19
" " tubs, seconds.....	16 a 17
" " Welsh tubs, finest.....	19 a 19
" " seconds to firsts.....	15 a 18
" " arkins, finest, old.....	14½ a 15
" " firsts.....	12½ a 13
" " seconds, old.....	11 a 12
" " tubs or arkins, thirds, old.....	a 10
Western imitation creamery, extras.....	a 17
" " firsts.....	14 a 15½
" " seconds.....	11 a 12
" " factory, fresh, extras.....	12½ a 13
" " firsts.....	11½ a 12
" " seconds.....	10 a 11
" " thirds.....	8½ a 9½
Rolls, fresh, per lb.....	8 a 12½

Add 1c. per pound to the above for small selections of choice and fancy goods.

CHEESE.

State, full cream, large, Sept. white, fancy.....	a 12½
" " colored, fancy.....	12½ a 12¾
" " late made, large, white, prime.....	11½ a 12
" " col'd, prime.....	11½ a 12
" " good.....	11½ a 11¾
" " large, common to fair.....	9 a 11
" " small, Sept. colored, fancy.....	a 12½
" " white, fancy.....	12 a 12½
" " late made, good to ch.....	11½ a 12
" " common to fair.....	9 a 11
" " part skims, good to prime.....	7 a 8
" " common to fair.....	5 a 6
" " full skims.....	2½ a 3
" " full cream, large, choice.....	a 10½
" " good to prime.....	10 a 10½

EGGS.

Pennsylvania, fresh gathered, choice.....	10 a 10½
North Ohio and North Ind., choice to fancy.....	9½ a 10
Other Western, choice.....	a 9½
Western, fair.....	a 9
Kentucky, choice.....	9½ a 9¾
Other Southern, choice.....	a 9½
Southern, fair.....	9 a 9½
Western, seconds (30-doz. case).....	2 50 a 2 75
Duck eggs, Baltimore, per doz.....	a 25
" " Maryland.....	23 a 24
" " Western.....	21 a 22
" " Va. and Tenn.....	a 20
" " other Southern, per doz.....	17 a 18
Goose eggs, per doz.....	a 65

GREEN CALF SKINS.

Veal Skins, No. 1.....	14
Veal Skins, No. 2.....	12
Buttermilks, No. 1.....	11
Buttermilks, No. 2.....	9
Kips, No. 1, Heavy, 18 lbs. and up.....	1.60
Kips, No. 1, Light, 14 lbs. and up.....	1.60
Kips, No. 2, Heavy.....	1.60
Kips, No. 2, Light.....	1.20
Buttermilk Kips.....	1.20
Branded Kips.....	1.00
C. S. No. 3.....	40
Bobs.....	25

BONES, HOOFS, HAIR AND HORNS.

Round shin bones, dry, 50 pieces to 100.....	a \$56.00
Flat shin bones, dry, 42 pieces to 100.....	a 41.00
Thigh bones, 75 pieces to 100.....	a 75.00
Horns, 7½ ounces and over.....	a 145.00
" " 7½ ounces and under.....	a 110.00
" " No. 3.....	a 60.00
Gluestock, per 100 lbs.....	a 90c
Hair tails.....	a 3c

BUTCHERS' FAT.

Rough butcher's fat.....	1½
Inferior.....	1
" " best, fresh and heavy.....	2½
Shop bones (per cwt.).....	20

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One who understands weighing, packing and shipping of meats. State experience, and salary expected. Address "MANUFACTURER," Box 96, care THE NATIONAL PROVISIONER, 284-6 Pearl street, New York.

Competent, experienced bookkeeper desires a position. Would also couple duties of office manager with those of bookkeeper. Address J. T. G., Box 46, THE NATIONAL PROVISIONER, 284-6 Pearl street, New York.

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Three Johnson Filter Presses, 36 Plates, 18 inches diameter, and
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A slaughter house on Johnson avenue, Brooklyn, complete for killing hogs or other live stock, for rent cheap. Apply for particulars at 195 Hamburg avenue, Brooklyn.

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Only \$4 a day; new pork and beef house; live stock prices 40 cents under Chicago; shipping rates equal Chicago. Address "S.," care of THE NATIONAL PROVISIONER, 284-286 Pearl street, New York.

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Per Annum in the U. S. and Canada (in advance),	\$4.00	CITY AND STREET.....
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BUTCHERS.

The following Mortgages on Butchers' Fixtures, Bills of Sale, etc., have been recorded during the past week up to Saturday, March 27, 1897. They are a reprint of our Advance Sheet sent out to houses on March 27, who subscribe to same.

NEW YORK CITY.

Brand, Ike, 210 Delancey; to H. Gottesman	\$50
Edelman & Lubenousky, 108 Henry; to N. Neubrunn	60
Haas & Loeb, 301 East 116th; to E. Diamond	50
Lewitus & Loewy, 1328 1st Ave.; to F. Lesser	50
Meyer, Wm., 136 8th Ave.; to Rose Meyer	300
Reuben, Louis, 209 East 108th; to M. Klein	100
Schmidt, Chas., 2352 1st Ave.; to Armour & Co	395
Simchovitz, Isaac, 79 Suffolk; to Baar Bros	100
Teitelbaum, Louis, 69 Willett; to M. Klein	20
Troll, J. J., 456 East 135th; to B. Mangold (Ice Wagons)	225

(Bills of Sale.)

Hilsmann, R. F., 754 9th Ave.; to Emil A. Hilsmann	500
Lischner, M., 24 Willett; to A. J. Finkelstein	50
Syska, Wm. F., 686 Tremont Ave.; to Aug. W. Syska	300

KINGS COUNTY.

Bayha, Annie R., 229 Court; to J. Young	150
Brooklyn Ice Skating Co., Clermont Ave.; to Buffalo Refrigerating Machine Co.	17,000
Ketterer, R., 163 Throop Ave.; to Robt. Habick	100
Stacks, J., 107 Nostrand Ave.; to J. F. Voegel (Ice Wagon)	35
Stubbmann, G., 301 5th Ave.; to P. Weisgerber	101
Strauss, I., 82 Van Brunt; to Cath. Leonard	75

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The following Mortgages on Grocers' Fixtures, Bills of Sale, etc., have been recorded during the past week up to Saturday, March 27, 1897. They are a reprint of our Advance Sheet, sent out to houses on March 27, who subscribe to same.

NEW YORK CITY.

Bade, Bernhard, 1665 Ave. A; to P. Frank	250
Berg, Fred, 707 10th Ave.; to A. Koenig	23
Bubrick, Oscar, 1519 3d Ave.; to N. Levy	500
D'Angelo Pasquale, 242 Elizabeth; to V. Bougiorna	200
Graf, Hy., 425 E. 91; to Gussie Graf	300
Goldberg, Moses, 170 Suffolk; to J. Rabinowitz	40
Griot, George, 852 3d Ave.; to M. Lowenstein	1,108
Hebron, G. W., 713 Broadway; to R. Rothschild	103
Iasillo, G., 561 Morris Ave.; to A. Germano	300
Moses Hermann, 52d and 3d Ave.; to Dumrauf & Wicke	55
Rubin, Barret, 18 110th; to S. Levin	50
Wirt, Frank, 220 Eldridge; to M. Levin (butter store)	30
Wainfelt, Max, 1076 2d Ave.; to L. Weingar	50
Weiss, Sol., 229 E. 95th; to A. Tretsch	70

(Bills of Sale.)

Baruch, Nettie, 158 Greene; to C. Kohn (Restaurant)	200
Beyer, Jacob, 20 Norfolk; to W. Harowitz (Fish Market)	30
Bull, J. F., 1744 1st Ave.; to Mary Bull (Restaurant)	150
Freyer, W. O., 291 Ave. C; to R. D. Ikels	100
Hinchman, C. S., 502-4 6th Ave.; to R. W. Larkins (Restaurant)	1,250
Paeley, Jacob, 62 Catherine; to M. Goldberg	450
Salzarule, Brigida, 50 1/2 Mulberry; to J. P. Tossing	700
Schwarz, Geo., 1434 2d Ave.; to L. Levin	190
Wilkins, L. R., 531 Manhattan Ave.; to D. A. D. McManus	50
Wolz, Peter, 138 6th Ave.; to J. Rosenthal & Co. (Restaurant)	260

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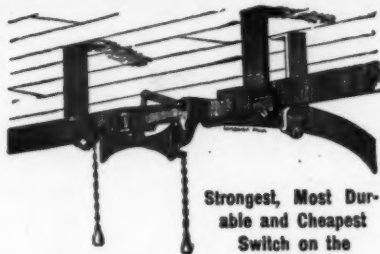
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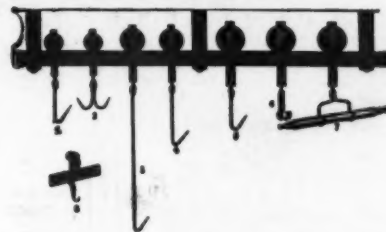


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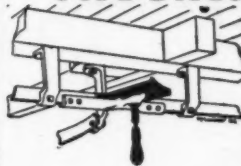
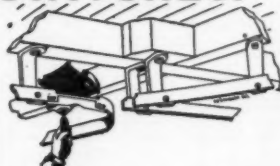
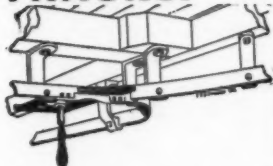


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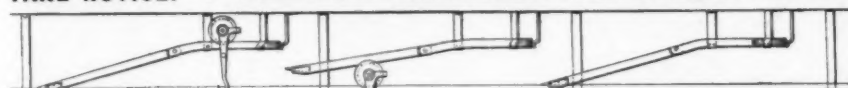


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Cutting of Hogs.

When to Commence Cutting.—Size of Gang.—The Cutting Gang.—The Chopper.—Instruments in Use.—Side Meat Trimmers.—Ribbers.—Backbone Sawers.—Shoulder Trimmers.—Blade Pullers.—Where to Chop the Backbone Out.—Other Men and Boys Necessary.—Cost of Cutting.—Domestic Cuts.—Export Cuts.—Loins.—Wrapping.—Cold Storage.—Treatment During Summer Season.—No Lean Meat to Tanks.—Spareribs.—Backbones, Neckbones, Hocks; What to do With Them.—Short-rib Middle (illustrated); How to Cut.—English Short-rib Middle (illustrated and explained).—Long Clear Middle (illustrated and explained).—Extra Long Clear Middle (illustrated and explained).—Long-rib Middle (illustrated and explained).—Cumberland Middle (illustrated and explained).—Yorkshire Middle (illustrated and explained).—Staffordshire Middle (illustrated and explained).—Dublin Middle (illustrated and explained).—Birmingham Middle (illustrated and explained).—Short, Clear Sides (illustrated and explained).—Extra Short, Clear Sides (illustrated and explained).—Wiltshire Sides (illustrated and explained).—South Staffordshire Sides (illustrated and explained).—Clear Belly (illustrated and explained).—Rib Belly (illustrated and explained).—Welsh Sides.—Irish-cut Sides.—South Staffordshire Sides.—Clear Bellies.—English.—Rib Bellies.—Pickled Clear Bellies.—Short Clear Backs.—English (illustrated).—Short Fat Backs (illustrated).—Picked Clear Backs (illustrated).—Short-cut Hams (illustrated).—Long-cut Hams (illustrated).—Stafford Hams (illustrated).—South Stafford Hams.—Manchester Hams.—Skinned Hams.—California Hams (illustrated).—Rolled Hams, Bone

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Fresh Meats.

Tenderloins.—Trimblings.—Spareribs.—The Advantages of Spreading.—What Recipes to Use to Give Meat Good Appearance.—What Pieces Must not Be Given for Counter Trade.—The Handling of Spare-ribs, also Fresh and Smoked.—Meat Market Sales.

Hog Tests and Relative Values.

The Value of Tests.—What Percentage to Figure on Live Weight.—What to Figure for Cost of Manufacture.—Shrinkage When Determining Cured Yields.—Conclusion About Cutting of Hogs.

TABLE SHOWING AVERAGE Weights of Cuts, Meats, and LARD YIELDED by Live Hogs of 110 to 450 lb. (This table alone is worth the price of the book to every packer.)

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Lard.—Bladders.—American Tierces.—Other Packages.—Canned (tinned) Meats.—Rules and Regulations of London Chamber of Commerce.—General Rules for Exporters.—Terms.—Invoices.—Weights.—Agents.

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CASINGS.—Soaking, Cleaning, Salting.—Quantity of Salt Allowed.—Yield per Hog.—Calculating Profits for Casings Department, 4 Months' Killing, 2 Examples.—Advantages to the Packer.

Fertilizer Department.

Dried Blood.—Concentrated Tankage or "Stick."—Percentage of Phosphate, Moisture and Ammonia.—Sample Analysis of Dried Blood, Concentrated Tankage.—No. 1 Ground Tankage.—Raw Bone Meal.—Ground Steam Bone.—Value of Dried Blood as a Fertilizer per Unit and per Ton.—Concentrated Tankage No. 2.—Ground Tankage.—How Manufactured, and What it Contains.—Raw Bone Meal.—Ground Steam Bone.

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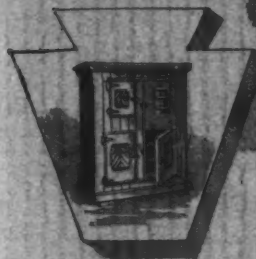
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I. L. NEWMAN, 6 S. HOWARD STREET, BALTIMORE, MD.
CALLERINE MFG. CO., 34 W. Chestnut St., Lancaster, Pa.

THE CALLERINE MANUFACTURING COMPANY,
612 ARCH STREET, PHILADELPHIA.

Certificate of Analysis.

New York, July 1, 1896.

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612 Arch Street, Philadelphia, Pa.

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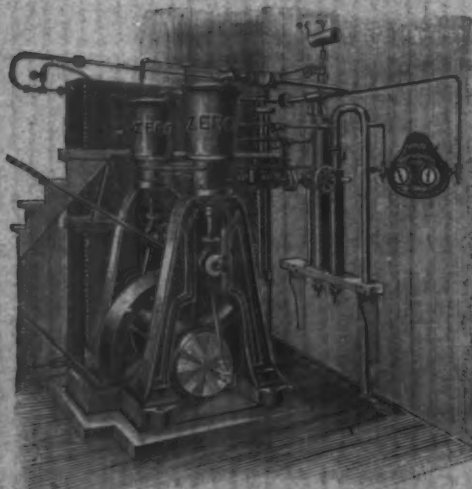
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